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AND RELATED ENGINEERING SCIENCE

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1602 1610 1612 2189 2237 2242 2749 2750 2753 2755
2756 2761 2762 2806 2807 2808 2809 2814 2815 2817
2976 3433 4074 4075 4076 4079 4080 4111 4113 4115
4120 4423 4771 4815 5426 5431 5592

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2183 2186 2192 2244 2245 2246 2752 2778 2816 2831
3008 3420 3426 3952 4073 4117 4121 4122 4123 4124
4779 4955 5378 5401 5423 5429 5991 6751 6765

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0499 0500 2747 2757 2813 2836 3420 3426 4119 4123
4779 4955 5427 5429 5991 6751 6765 7113 7120 7188
7226

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2757 2816 2984 3420 3426 5427 5596 5949 5991 6765
7113 7188 7226

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0296 0307 0891 0893 0933 0982 0994 0996 1036 1436
1688 1689 1706 1707 2219 2418 2746 2859 2995 3007
3538 4078 4202 4204 4815 4850 4935 4955 4967 4969

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5385 5472 5475 5589 6493 6494 6660 6667 7220 7286

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6034 6544 6585 7127 7144 7177 7181 7185 7187 7188
7214 7226 7375

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4024 4028 4283 4285 4286 4287 4288 4423 5547 5549
6732 6733 7077 7339

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0622 0630 1620 1746 1747 1748 1749 2389 2390 2976
3946 4074 4589 5545 5546 5548 5552 5553 6392 6395
6541 6730 6731 6735 7337 7338 7340 7341 7344 7345

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1782 1802 2469 2751 2988 3629 4321 4770 4938 4939
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6585 6633 6739 6740 6741 6742 6745 6746 6747 6748
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2768 2773 2784 2785 3427 4078 4081 4082 4083 4088
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0336 1613 1618 1778 1780 2838 2982 2983 2986 2989 4130 5431 5432 5992 6633 6746 7376

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0941 0943 0980 1620 1749 2837 3151 4074 4780 4937 4962 6734 6736

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0938 0939 0940 0942 0993 1138 1618 1778 2301 2817 2982 2983 4105 4127 4776 4777 4778 4780 5432 5585 5992 6625 6627 6633 6635 6746

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0338 1775 2248 4076 6634

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0295 0300 0334 0337 0503 0929 0938 0939 0940 0943 1138 1547 1602 1616 1618 1619 1656 1778 2245 2300 2756 2812 2817 2838 2983 2991 2992 4127 4130 4776 4777 4962 5432 5440 5446 5992 6543 6544 6625 6633 6746 7187 7188 7214

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0295 0300 0497 1776 1779 2993 4321 4456 4773 4947 6447 6584 6740 7183 7184

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0282 0319 0630 0948 0958 1247 1527 1894 2494 3765 3769 3770 3771 4050 4448 4449 4450 4763 5675 5676 5832 6228 6610 7195

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0376 0628 0629 1250 1676 1678 3772 4210 4451

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0630 0855 1248 1249 1893 1895 2279 2493 3770 5677 5678 7008

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0086 0627 0677 1243 1244 1245 1246 1309 1891 1892 1896 2492 2558 3226 3754 3766 3767 3851 3865 4447 4492 4621 5832 5879 6929

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3633 3646 3647 3656 4243 4312 4313 4314 4315 4316
4317 4318 4319 4320 4323 4324 4325 4326 4328 4329
4331 4332 4335 4336 4896 4952 4953 4960 4965 4966
4968 4971 4976 4977 4978 4979 4980 5574 5579 6142
6172 6759 6760 6762 6764 6768 6769 6771 6772 7379
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2520 3159 3163 3164 3165 3789 4448 6901

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4467 4778 5098 5104 5446 5697 6263 6264 6885

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0039 1257 1262 1266 1888 1911 1914 1915 1930 2529
3154 3161 3172 3781 3958 4487 5064 5081 5095 5099
5100 5101 5105 5110 5689 6241 6261 6879 6881 6882
6895 6896 6897 6905

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0041 0042 0043 0044 0063 0337 0617 0642 0643 0644
0645 0646 0647 0648 1258 1259 1260 1879 1911 1912
1913 1919 2511 2512 2513 2514 2525 3155 3156 3157
3786 3788 3790 3791 3792 3794 3795 4424 4466 4470
5111 5115 5691 5694 5703 6265 6266 6269 6846 6848
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0653

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2521 2522 2523 2524 2525 3789 3796 4468 4477 5116
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5705 6273 6274 6275 6276 6281 6884 6896 6899 6900
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2518 3793 5107 5108 5112 5113 5114 5115 5692 5693
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5651 5652 5653 5656 6234

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1579 2189 2197 2200 2418 2763 2765 2772 2806 2814
2816 2837 3423 3426 4076 4079 4423 4727 4731 4734
5375 5377 5387 5592 5946 5947 6545 6765 7122 7125
7129 7134 7139

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0309 0310 0996 1545 1614 1618 2198 2214 2239 3428
3443 5388 5951 6549 6767 7168 7178 7185 7189

CONICAL
0294 0875 0891 0892 0982 0994 1545 1614 1618 1647
2186 2195 2294 2296 2752 2756 2761 3425 3492 4080
4122 4816 5380 5381 5382 5950 5953 6547 6548 6550
6586 7114 7115 7124 7329

CYLINDRICAL
1614 1659 2186 2206 2215 2372 2376 4078 4736 4743
4961 5380 5382 5945 6540 7117 7124

OGIVE
0875 0881

PLANE SURFACES
0431 0445 0864 0873 1560 2766 2783 3612 4236 4731
5374 5393 5545 7126 7152

POWER LAW GEOMETRICS
0307 2762 5384

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0876 1542 1545 2237 2241 2242 2390 4074 4725 4729
5962 6542 7117 7120 7133 7317 7333

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0880 1554 1615 1659 2376 2777 2778 3424 4730 4736
5372 5381 5953 7138

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0287 0288 0861 0933 0957 0980 1520 1521 2169 2268
2732 2740 3400 4064 4163 4164 5360 6527 6765 7102
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1581 1599 1660 1708 2216 2219 2223 2264 2766 2775
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4763 4764 5407 5408 7154 7155 7156 7161 7172 7414

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0881 0915 0923 1026 1574 2227 2793 2794 4249 4754
6573 7161 7163

BUBBLE
2250 4162

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1571 1706 1707 2792 2800 5410 5977 5978 7165

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0321 0446 0893 0922 0924 1054 1575 1578 1684 1687
1693 1706 2208 2221 2787 2793 2794 2800 2871 3437
3441 3442 3443 3585 3587 3588 4096 4758 5405 5514
5970 6089 6564 6638 6658 7154 7155 7161 7162 7164
7165 7166

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0920 0996 1059 1570 1576 1597 2220 2222 2377 2874
2944 3709 4094 4097 4250 4769 5404 5405 5406 5948
6565

CONTROL
0924 0978 0983 1037 1779 3446 4760 5408 5430 6572
6573 7156 7156 7158 7166

HYPERSONIC
0921 1688 1689 2191 2192 2193 2197 2221 2222 2223
2810 3444 4078 4935 5379 5454 5473 5474 5968 5969
5971 6548 6647 7132 7162

INCOMPRESSIBLE FLOW
0845 0868 0914 1574 1842 2268 2382 2739 2741 2788
3048 3436 4063 7107 7143 7156 7156 7157

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5970 5974 5975 6564

INTERACTION WITH SHOCK
0321 1560 2201 2266 2770 3441 4096 4762 5379 5409
5967 5968 5976 6577 7162

MEASUREMENT AND EXPERIMENTAL TECHNIQUES
0312 0881 0923 1572 1580 1582 1583 1584 1594 1597
1598 2222 2227 2748 2793 2794 2799 3444 4073 4094
4388 4759 5414 5417 5967 5971 5976 5979 5980 6578
7109 7173

SEPARATION
0276 0277 0861 1568 1580 1609 1655 1656 2186 2197
2229 2236 2250 2795 3442 3446 4167 5382 5416 5423
5433 5973 6569 6570 6571 6577 7105 7132 7164

SIMILARITY SOLUTIONS
1567 1574 1578 1585 2216 2221 2788 3448 4098 4099
4756 5966 5968 5971 6575 6576 7157 7158

SKIN FRICTION
0892 0920 0924 1037 1567 1594 5948 5969 7160

STABILITY
0283 0340 0914 2233 4757 6086

SUCTION
0326 0327 0868 0918 0920 0978 1031 2177 2270 4098
4099 4100 4131 4756 4760 4762 5408 5974 6574 6576
6650 7201

THERMAL
2787 2789 3436 3437 3439 3440 3445 5975 7107 7156
7156 7158 7161

THREE-DIMENSIONAL
0319 0327 0923 1575 2224 2236 4761 5474 5973 6569

TRANSITION
0312 0322 0323 0994 1577 1579 1652 2225 2226 2793
2794 2796 4103 4161 4759 4816 5405 5408 5409 5473
5972 6567 6568 6569 7091 7109 7168 7226

TURBULENT
1059 2217 2874 2895 2898 3086 3438 3439 3450 3521
3705 3709 4095 4388 4754 4755 4756 4855 5403 5414
5415 5417 5419 5473 5973 5979 5980 6084 6537 6574
6638 6692 6802 7158 7159 7174 7175 7281 7283

UNSTEADY
2787 2960 4100 4764 5412 5413 5433 6576 7143

WINGS
0322 0327 1655 1656 2808

•SEE ALSO•--- AERODYNAMIC HEATING -- HEAT TRANSFER BOUNDARY LAYER -- TEMPERATURE RECOVERY

BOUNDARY - VALUE PROBLEMS
3709 3752 4423 4427 6202

COMBINED FIELDS
1848 3086 3705 6788 6802

FLUID MECHANICS
0343 1525 1541 1830 2728 4701 4726 5330 7111

HEAT TRANSFER
2312 4187 4841 5461 6081 7254

SOLID MECHANICS
0687 0688 1303 1304 4685 6304

•SEE ALSO•--- EIGENVALUE PROBLEMS

BRAKES
2458 2989

BRAZING AND SOLDERING
0271 6464

BRIDGES
0250 0251 0252 0253 0854 1241 1473 1474 2116 2475
3294 3374 3912 4021 4022 4664 4665 4666 4667 5884
6518 7088 7073

•SEE ALSO•--- VIBRATION, BRIDGES

BRITTLE COATING
0810 4628 7059

BUBBLE DYNAMICS
0534 0950 2176 4162 4207 5357 5936 6593 7272 7273
7290 7435

•SEE ALSO•--- BOUNDARY LAYER, BUBBLE

BUCKLING
3176 5773

ARCHES AND VAULTS
0737 1360 3926 4539 5149 5187 6365

BEAMS
0137 0138 0140 0737 0738 0739 1353 1355 1356 1357
1962 2003 2118 2607 2608 2609 2611 2612 3256 3257
3914 3915 3917 3919 4445 4509 4555 5185 5186 5190
5195 5196 5776 5788 6360

CREEP
0141 0149 1960 1962 2010 2609 5144

PIPES AND TUBES UNDER PRESSURE
0746 3921 4366 5193

PLASTIC
1353 1438 2004 2009 2614 4509 5739

PLATES
0136 0139 0740 0741 0742 1358 1359 2614 2615 2616
3254 3924 4557 4558 4559 4563 5191 5192 5777 5778
5779 5780 5799 6332 6333 6359 6478 6973 6974 6976
7370

SANDWICH CONSTRUCTION
5781

SHELLS
0141 0142 0627 0743 0745 1362 2007 2592 2610 2618
2619 3246 3255 4539 4561 4562 5192 5783 5784 6340
6975 6977 6978

SHELLS, AXIALLY SYMMETRIC
0143 0144 0145 0146 0147 0148 0716 1361 2008 2617
3622 3911 3920 3922 3923 4551 4560 4564 5194 5782
6366 7371

SHELLS, CREEP
1960 5192

SHELLS, STIFFENED
0744 3921 5785

STRUCTURES
0136 1238 1354 1463 2005 2006 2606 2610 2613 3925
4556 5189 5739 5746 5786 6361 6362 6363 6364 6971
6972

THERMAL
7370 7371

•SEE ALSO•--- COLUMNS -- COMBINED LOADS

BUFFETING--- •SEE• GUST LOADS

BUILDINGS--- •SEE• STRUCTURES, BUILDINGS

BURNERS
2349 2355 7301 7302

BURNERS •CONTINUED•

GASEOUS FUEL
4871 6694

LIQUID FUEL
7309

BURNING VELOCITY--- •SEE• FLAME, PROPAGATION

C

CABLES AND FLEXIBLE FILAMENTS
0107 0108 0697 2988 3221 3860 5162 6471 6822 6983
7016 7034

•SEE ALSO•--- VIBRATION, STRINGS AND CABLES

CALORIMETER
2938 3508 4223 5493 6069 6080 6098 7293

CAMS
0585 0634 0635 1899 5040 5681 6500 6501 6866 6913

CANALS
0574 0848 0849 0851 2162 2830 3394 4695 5345 6519
6520

CAPILLARY FLOW
0509 0523 1832 2493 2716 3079 3389 3681 3684 5003
5007 5010 5625 6535

CASCADES OF AIRFOILS
0910 1247 2974 3472 3475 6603

COMPRESSIBLE FLOW
0966 1636 2270 2271 2273 4790 4809 6608 7201 7202

INCOMPRESSIBLE FLOW
0280 0957 0958 0959 0960 0965 1633 1640 1778 2283
4146 4156 6007 6818 7206

CAST IRON
0198 0199 0228 0827 1439 2105 2683 2684 6315 6464

CASTING
0347 3295 3296 5459 6311 6464

CAVITATION
0277 0330 1819 2164 2443 2719 2729 4046 4699 4700
4701 5351 5925 5926 5927 5928 6593

DAMAGE
2165 2727 2798 3322

HYDROFOILS
0576 1208 1209 1856 2728 3103 3721 3727 4049 5641
5646 6019 6228 6818 6819 7209

PROPELLERS
0328 0354 0969 1523 2477 3487 5029 5643

PUMPS
0351 0352 0353 0860 3483 4149 6016 6018 7204
0103 0676 0687 1300 1445 1974 2072 2560 2566 3210
3217 3218 3349 3352 3826 3827 3837 3838 3845 4512
4514 4515 4516 4517 4680 5236 5278 5741 5743 5744
6315 6320 6415 6467 7032 7424

•SEE ALSO•--- NOISE, CAVITATION -- WEAR AND FRETTING

CELESTIAL MECHANICS
1140 1141 1142 1143 1144 1148 1149 1783 1784 1785
1786 1787 1790 1793 1796 2411 2415 2416 2994 2996
2997 2999 3000 3002 3003 3009 3010 3012 3013 3646
4314 4315 4316 4317 4318 4319 4320 4323 4324 4325
4331 4332 4334 4337 4951 4952 4953 4954 4955 4957
4958 4963 4965 4966 4980 5568 5569 5570 5571 5574

CELESTIAL MECHANICS •CONTINUED•
5575 5576 5579 5583 5584 5593 5594 5595 6172 6752
6757 6758 6759 6760 6761 7381 7397

•SEE ALSO••• ASTROPHYSICS

CENTRIFUGATION
3004 5359

CERAMICS
0676 1152 1405 1406 1423 1442 2673 3205 3337 5841

CERMETS
1152 2682

CHAINS
5200

CHANNELS
0524 0528 0529 0847 0850 0910 1182 1509 1510 1511
1512 1517 1531 1538 1832 2159 2162 2163 2453 2722
2723 2830 3050 3394 3395 4044 4048 4728 5342 5344
5437 5920 5921 5922 5998 6195 6203 6515 6516 6518
6519 6520 6616 7084 7085 7118 7154 7155 7195

•SEE ALSO••• BACKWATER CURVES -- CANALS -- STREAMS, NATURAL

CHARTS

JANUARY FEATURE ARTICLE

CHEMICAL ENGINEERING
2830 2833 2834 2835 7229

•SEE ALSO••• COMBUSTION -- HEAT TRANSFER -- THERMODYNAMICS

CHEMICAL THERMODYNAMICS
1000 1002 1666 2302 2303 5511 6043 6044 6051 6723
7229 7240 7335

•SEE ALSO••• COMBUSTION, THERMODYNAMICS

CHIP FORMATION
0788 1407 2073 3303 5251 5838 5840 6435 6437 6438

CHUTES AND CONVEYORS
0211

CLAY
0523 0787 1396 2646 2675 3059 3287 3288 4646 5246
5821 5822 5826 7436

CLOUDS
1850

CLUTCHES
2132

COATINGS
1154 1423 1501 3307 4642 5257 5329

CODING AND PROGRAMMING
0017 0022 0577 1130 1240 3142 3145 3749 3763 4438
4755 6769 6864

COLUMNS
0135 4029 5184 6481

CREEP BUCKLING
3918 4565 5192 5196 5780 6367 6368 6369 6979

DYNAMIC LOADING
0219 5193 5782 5787 5788

LARGE AMPLITUDE BUCKLING
3919 6358 6971

PLASTIC BUCKLING
2563 3253 3917 5183 5188 6357

COLUMNS •CONTINUED•

VARIABLE CROSS SECTION
5774

COMBINED LOADS
5258

COMBUSTION
1084 1718 1721 2349 2359 2360 2361 2460 3024 3078
3562 4817 4866 5503 5505 6113
7165 DECEMBER FEATURE ARTICLE

ACOUSTICS
0426 1717 2450 5500 5501 6120 6694 7301 7302 7304

BLOWOFF
3546

FLASHBACK
2361

FUEL JETS
1076 3552 3563 5502 5618 6122 7300 7308 7309

HEAT TRANSFER ASPECTS
2915 3548 3551 4866 4876 4881 6693 6694 7295 7305
7306

INFLAMMABILITY
4984 6775

INSTABILITY
0433 1076 1717 2356 2915 3029 3557 3558 3660 4880
5510 6123 6128 6698 7304 7408

LIQUID DROPLETS
0533 3678 5502 6124 6698 7305 7308 7309 7408

MECHANISMS
0515 1078 2350 2353 2906 2908 3546 4878 5495 5499
5503 5508 6179 6690 7303

PREFLAME REACTIONS
3030 4878 5508 6181

REACTION KINETICS
0422 0423 0427 0513 1079 1080 1662 1719 2351 2355
2363 2907 2908 2909 3548 3549 4878 4882 5495 5499
5503 6118 6121 6124 6177 6690 7303

SOLID FUELS
0420 0421 0429 0516 1057 1719 2363 2450 3552 3556
3561 4872 4874 4875 5501 5510 6115 6121 6122 6693
6696 6697 7294 7297 7299 7306 7307 7408

THERMODYNAMICS
0422 0423 1079 2350 3555 3563 4870 4985 5376 5499
5504 6118 6119 6690 6691 7303 7308

UNSTEADY
1717 2913 3556 3559 3560 3561 4990 5497 5500 6776

•SEE ALSO••• BOILERS -- BURNERS -- COMBUSTORS -- DETONATION AND DEFLAGRATION -- DISSOCIATION -- EXPLOSION, HYDRODYNAMICS -- FLAME -- FLUE GASES FUELS -- FURNACES -- IGNITION -- KNOCKING -- OPTICAL TECHNIQUES -- PROPELLANTS -- ROCKETS -- SPRAYS

COMBUSTORS
1076 1077 1084 2355 2358 2359 2360 2362 2933 3555
4885 5502 5504 6698 7306

COMPLEX VARIABLES
0213 0621 0712 1289 1290 1304 1334 1943 1998 2549
3179 3180 3227 3234 3459 3616 3752 3754 4433 4521
5129 5134 5170 5179 5664 5716 5770 6841 6843 6849
6917 6919 6924 6927 6946 6962

•SEE ALSO••• CONFORMAL MAPPING

COMPRESSIBLE FLOW
0609 0861 0872 1529 1552 1563 1566 1615 2185 2208
2213 2214 2754 2775 2784 3039 3677 4048 4072 4084
4085 4086 4087 4088 4090 4091 4093 4113 4167 4196
4229 4285 4289 4423 4702 4724 4736 4744 4751 4752
4807 4883 4884 5411 5473 5944 5956 6562 6563 6652
7088 7136 JUNE FEATURE ARTICLE

HYPERSONIC
0308 0399 0890 0894 0895 0896 0992 1555 1647 1755
2191 2195 2196 2198 2206 2215 2239 2761 2762 2763
2764 2765 2778 2810 3017 3426 3427 3428 4079 4080
4081 4082 4083 4168 4201 4731 4734 4750 5377 5380
5383 5384 5385 5386 5395 5396 5442 5952 6546 6548
6549 6550 6551 6555 6558 6647 7124 7128 7129 7130
7131 7150 7239

HYPERSONIC, AXISYMMETRIC
0309 0310 0875 0893 1650 2193 5387 5388 5951 6547

HYPERSONIC, TWO DIMENSIONAL
1553 1556 2192 4078

STABILITY
1727 1728 6086

SUBSONIC
0344 0871 1544 1656 1894 2184 2201 2444 2493 2746
3412 3489 3495 4196 4355 4718 4723 4729 4746 4905
5068 5372 5440 5514 5515 5516 5942 5965 6529 6530
6539 6543 6561 6623 6628 6731 7087 7092 7093 7094
7097 7098 7108 7112

SUPERSONIC
0295 0300 0306 0877 0883 0885 0912 1086 1087 1548
1550 1647 1782 2183 2189 2190 2195 2237 2240 2244
2295 2757 2759 2783 2806 2809 2975 3431 3521 3550
4073 4074 4077 4114 4115 4121 4203 4227 4729 4731
4732 4733 4743 4747 4771 4849 4900 4947 5374 5375
5376 5392 5592 5957 5965 6117 6543 6551 6580 6660

SUPERSONIC, AXISYMMETRIC
0442 0875 0876 0881 0887 0935 0936 1086 1545 1637
1650 3424 5399 5400 5401 5950 6542 6545 7114 7127

SUPERSONIC, ONE DIMENSIONAL
0317 1097 2962 3430 3432 3582 3583 3593 4075 4235
7135

SUPERSONIC, TWO DIMENSIONAL
0885 0886 0925 1543 1559 1600 2365 2943 3422 3578
3604

TRANSONIC
0873 0874 0909 0937 0986 0988 0993 0997 1541 1542
1544 1601 1637 2183 2184 2201 2748 2749 2750 2751
2756 2807 2813 2814 3495 4112 4118 4725 4726 4727
4728 4729 4772 5079 5367 5423 5440 5545 5546 6540
6541 6582 6623 6628

THREE-DIMENSIONAL
0872 0878 0879 0880 0889 0926 1554 2786 2808 2837
4076 4122 4123 4124 4752 4904 5338 5470 5471 5474
5963 6580 6654 7114 7115 7118 7122

•SEE ALSO•--- AEROTHERMOACOUSTICS -- AEROTHERMOCHEMISTRY -- AEROTHERMODYNAMICS -- BOUNDARY LAYER -- CONDENSATION IN HIGH SPEED FLOW -- DETONATION AND DEFLAGRATION -- DIFFUSERS HEAT TRANSFER -- HODOGRAPH METHODS -- JETS -- METHOD OF CHARACTERISTICS -- NOZZLES -- OPTICAL TECHNIQUES -- RAREFIED GASES -- SHOCK WAVES -- TEMPERATURE RECOVERY -- WAVE MOTION

COMPRESSORS
0347 2278 3482 3486 5048 6017 6636 7204 7205

AXIAL
1573 1636 1639 1640 2275 2277 3415 3422 3478 3481
4154 4155 4791 6012 6017 6603 6604 6605 7205

COMPRESSORS •CONTINUED•

BLADES
0966 1638 1640 2270 2271 2272 3476 3477 3478 4146
4147 4590 6017 6603 6605 6608 7201 7227

CENTRIFUGAL
0348 4150 4155 4590 6010 6011 6017 6602 7205 7207

MIXED
0263

•SEE ALSO•--- SUPERCHARGERS -- VIBRATION, BLADES

COMPUTING MACHINES
0021 2823 4858 6067 6184 7168

ANALOG
0022 0334 0337 0423 0628 1527 1678 1888 3765 3772
3773 4070 4447 4766 5081 5124 5677 7402

DIGITAL
0017 0023 0024 1240 1241 1248 1887 1889 2492 3143
3763 3764 4179 4438 4444 5079 5080 5677 6864

DIGITAL-ANALOG
3144

•SEE ALSO•--- CODING AND PROGRAMMING -- DATA ANALYSIS

CONCRETE AND MASONRY
1456 2098 4652 5876

PRECAST
5914

PROPERTIES
0680 0682 1178 1410 1412 1455 1954 1959 2086 2110
2554 2670 3045 3832 3861 4638 4639 4655 5145 5146
5223 5298 5615 6302 6472

SLABS
0100

STRUCTURES
2099 3365 4299 4667 4668 4669 4696 7075

•SEE ALSO•--- PRESTRESSED CONCRETE -- REINFORCED CONCRETE

CONDENSATION IN HIGH SPEED FLOW
0907 7141

CONFORMAL MAPPING
0281 0957 0958 1525 1633 1881 1969 3215 4156 5057
5425 5443 6007 6862 6874 7090 7441 7442

CONSOLIDATION AND STABILIZATION OF SOILS--- •SEE• SOIL MECHANICS, CONSOLIDATION AND STABILIZATION

CONTACT PROBLEMS
0672 0805 1946 1951 2602 3197 3198 3819 3820 5137
6923

CONVECTION--- •SEE• HEAT TRANSFER, CONVECTION

CONVEYORS--- •SEE• CHUTES AND CONVEYORS

COOLING TOWER
1068 2900 4219

COPPER AND COPPER ALLOYS
0211 0230 0793 0820 1441 1816 2109 2653 3355 3356
5158 5282 5728 6464

CORROSION
6823

•SEE ALSO•--- STRESS CORROSION

COUPLINGS
0839 3381 3736 5346

CRACK PROPAGATION
0801 1410 1411 2078 2079 2080 2082 2663 3065 3208 3308 3309 3972 3976 3985 3986 4618 4619 4620 4621 4624 4640 5154 5258 5837 5841 5844 5846 5848 6447 7041 7046

•SEE ALSO•--- STRESS CONCENTRATION FACTORS

CREEP
0201 3832 5144 5148 5262

FERROUS MATERIALS
0473 0820 0822 0828 1766 1773 2405 3203 3351 3621 4499 4633 5278 5280 5720 5721 6162 6301

NONFERROUS MATERIALS
0472 0820 1308 1396 1770 1773 1963 2055 3201 3203 3835 3836 3837 3838 3839 3850 4501 5726 5727 5728 5826

NONMETALS
0089 0680 0682 1959 3205 3834 4638 4643 4645 5142 5143 5145 5146 5724 5725 6302 7033

RUPTURE
0090 0203 0828 1414 1436 1956 2074 5721

STRUCTURES
0087 0088 0090 0091 0093 0094 0679 0683 1306 1307 1308 1309 1310 1955 1957 1960 1962 2551 2552 2706 3833 3834 3841 4299 4500 5722 5723 6300 6933 6934 6937 6938

TESTING
0089 0684 1770 1773 1774 1958 1960 3201 3203 3835 3838 3840 3842 4300 4499 4645 5144 5725

THEORY
0087 0088 0091 0092 0472 0682 0687 0822 1307 1309 1310 1955 1956 1957 1959 1964 2550 2552 2554 3202 3204 3839 3844 4300 4614 4633 5148 5720 5722 5723 5724 6299 6300 6301 6511 6932 6933 6934 6935 6936 6937

•SEE ALSO•--- BUCKLING, CREEP -- HIGH TEMPERATURE PROPERTIES OF MATERIALS -- STRESS RELAXATION -- VISCOELASTICITY

CRITICAL SPEED--- •SEE• SHAFTS, CRITICAL SPEED

CRUSHING
5610 5611 6194 7426

CRYOGENICS
0370 1003 2123 3512 3536 4873 7267

CRYSTALS

CULVERTS
6517 6518

CURRENTS
0859 3085 3699 3700 3701 3703 3704 4045 6217 6611 6612 6613 6614 6615 6616

CURVE FITTING
0830 3136 3138 3139 3745 3758 4391 5910 6861

CUTOUTS IN STRUCTURES--- •SEE• STRUCTURES, CUTOUTS

CUTTING PROCESSES
0788 0796 0799 1407 1866 2654 2655 3296 3303 4506 5837 5839 5841 6435 6436 6437 7028 7030 7452

FERROUS METALS
0797 1406 2073 4617

CUTTING PROCESSES •CONTINUED•

NONFERROUS METALS
0795 0797 1408

•SEE ALSO•--- CHIP FORMATION -- DRILLING -- GRINDING -- MILLING -- SHAPING -- TURNING

CYCLONES
1821 2281 2456 2733 7095 7431

•SEE ALSO•--- MICROMERITICS

D

DAMPING CAPACITY OF MATERIALS
0823 1421 1434 2107 2113 2550 2653 2678 4308 5282 5853 6314 6474

•SEE ALSO•--- VIBRATION, DAMPING

DAMS
0021 0254 0255 0256 1475 1476 1477 1506 1645 2099 2122 2701 2702 3063 3241 3688 3969 4669 4670 4689 5885 5886 5923 6491 7074 7085 7441

ABUTMENTS
5347

EARTH
2066 2465 2467 3069 3689 6433 7026 7443

RETAINING WALLS
3293 3881 6428 6521

DATA ANALYSIS
0811 1195 1200 1883 2102 3008 3012 3758 3854

•SEE ALSO•--- SAMPLING OF DATA

DATA PROCESSING AND REDUCTION
0021 3008 3012

DEFLAGRATION--- •SEE• DETONATION AND DEFLAGRATION

DETONATION AND DEFLAGRATION
0427 0428 0510 0511 0512 0513 0514 0515 0516 1159 1160 2349 2357 2657 2914 3029 3030 3660 3661 4340 4341 4342 4877 4981 4982 4984 4985 4986 4990 6119 6178 6179 6180 6181 6697 6775 6776 7408 7409

•SEE ALSO•--- EXPLOSION

DIAPHRAGMS
0128 0205 2831 4171

DICTIONARIES
0200 0269 0663 0664 7407

DIFFERENCE EQUATIONS--- •SEE• EQUATIONS, DIFFERENCE

DIFFERENTIAL ANALYZER--- •SEE• COMPUTING MACHINES

DIFFERENTIAL EQUATIONS, ORDINARY
0613 0629 1226 1871 1872 1886 3120 3121 3139 3145 3746 3751 3752 3768 4425 4433 5057 5058 5062 5065 5071 5658 5669 5998 6244

APPROXIMATION METHODS
0018 0019 1567 3748 6242

BOUNDARY VALUE PROBLEMS
0003 0004 0915 1228 2789 3448 3748 4430 6245

INITIAL VALUE PROBLEMS
3748 4429

NONLINEAR
0007 0021 0617 1229 1894 2790 3582 3748 3750 3765

NONLINEAR •CONTINUED•
4424 4425 4426 4429 4445 5659 5966 6249 6846 6847 6848

NUMERICAL METHODS
0915 1017 2789 3448 3748 3749 3750 4442 5662 5674 6844 6851 6860

STABILITY
0005 0006 1875 1876 6004 6845 6847

•SEE ALSO•--- BOUNDARY VALUE PROBLEMS -- EIGENVALUE PROBLEMS -- INITIAL VALUE PROBLEMS -- MATRIX METHODS -- NUMERICAL ANALYSIS -- OPERATIONS METHODS

DIFFERENTIAL EQUATIONS, PARTIAL
1731 1871 1872 1886 2332 3120 3124 3127 3134 3145 3746 3772 4059 4433 5062 5658 5669 6244 6247 6843 6849

APPROXIMATION METHODS
0019 1237 6242 6248

BOUNDARY VALUE PROBLEMS
0004 0008 0009 0010 0012 0013 0014 0343 0614 1228 1877 3760 4058 4066 5059 5352 6245 6533 7096 7111

EIGENVALUE PROBLEMS
3422

NONLINEAR
0444 1736 3128 4063 7096

NUMERICAL METHODS
0318 0321 0325 0626 1569 1880 3129 4057 4070 4096 4432 4710 5060 5073 5074 5075 5076 5079 5670 5671 5674 6139 6235 6850 6852 7088

OPERATIONAL METHODS
1878

STABILITY
0011

•SEE ALSO•--- DIFFERENTIAL EQUATIONS, ORDINARY -- METHOD OF CHARACTERISTICS

DIFFRACTION--- •SEE• INTERFACE PHENOMENA

DIFFUSERS
4131 4150 4754

SUBSONIC
0868 2173 3056 5362 7149

SUPERSONIC
0912 1715 4121

•SEE ALSO•--- INLETS

DIFFUSION
0398 1063 1675 2317 2332 3417 3419 4215 4828 5482 5483 5484 5629 6089 6212 6644 7279 7280

ATMOSPHERIC
0536 0570 1194 1847 3088 3090 3092 3705 6655 6810

THERMAL
0537 1061 2378 4216 5075 5365 6676

DIGITAL COMPUTERS--- •SEE• COMPUTING MACHINES, DIGITAL

DIMENSIONAL ANALYSIS
0099 0853 1871 1872 2276 3537 3746 3755 3768 4048 4151 4681 4828 5310 5666 5835 6227 7094 7204

•SEE ALSO•--- MARINE ENGINEERING, SHIP MODEL EXPERIMENTS -- SCALE EFFECT

DIRECT ENERGY CONVERSION
2846 3510 4174 4231 4825 4894

FUEL CELLS
1094 4895

DISKS
1128 1129 1288 1338 1426 2282 3032 4160 5220

•SEE ALSO•--- ROTATING DISKS

DISLOCATION THEORY
0066 0820 1301 1937 1973 1974 2405 2560 2566 2684 3199 3210 3217 3623 3836 3837 3845 3857 4512 4514 4515 4516 4636 5147 5157 5280 5729 5744 6320 6321 6464 6927 6935 7063 AUGUST FEATURE ARTICLE

•SEE ALSO•--- CREEP -- CRYSTALS -- VISCOELASTICITY

DISSOCIATION
0899 1000 1062 1073 1529 1707 2200 2204 2309 2872 2897 3005 3427 4714 4715 4749 5389 5451 5475 5962 6043 6051 6631 6676 7128 7140

DISTILLATION
1666

DOWNWASH AND UPWASH--- •SEE• WINGS, UPWASH AND DOWNWASH

DRAG AND LIFT
0895 0933 1599 2183 2269 2808 2815 2816 7430

COMPRESSIBLE FLOW
0333 0405 0930 1147 1541 1665 2237 2241 2282 2807 2809 4729 4730 5378 5959 6604 7189

INCOMPRESSIBLE FLOW
0284 0287 0456 0844 0863 0958 0959 1653 1776 2175 2374 2478 2714 2743 3399 3407 3675 3676 3722 4064 4354 5421 5930 5940 5943 6818 6819 6821 7089 7105

MEASUREMENTS
0863 1547 1659 2743 3053 7089

VEHICLES
0980 1776 2243 2989 2995 3007 5962 5991 6176 6756 7189

•SEE ALSO•--- BODIES, FLOW PAST, WITH MODIFIERS -- BOUNDARY LAYER -- HIGH LIFT DEVICES -- MARINE ENGINEERING, SHIP RESISTANCE

DRAWING
0798 1312 2068 3212 3295 3296 3297 4611 5836 MARCH FEATURE ARTICLE

DRILLING
5011 5842

DROPS
0465 0532 0533 0534 1180 2805 2890 3044 3052 3053 3055 3678 3679 5617 5936 6197 6199

•SEE ALSO•--- HYDROLOGY, RAINFALL -- IMPINGEMENT OF DROPS -- SPRAYS

DRYING
1025 1043 1064 1065 2893 2894 4209 5485 6674 7238

DUCTILITY
0207 0820 3310 3837 3839 3850 3976 3979 4001 7037 MARCH FEATURE ARTICLE

•SEE ALSO•--- BRITTLE FAILURE -- STRAIN HARDENING

DUST
7431

DUST •CONTINUED•

COLLECTION
0537 0538 0539 1822 1824 1825 1826

PARTICLE SIZE DETERMINATION
1179 1824 3046

TRANSPORT
3680 7427

DYNAMIC LOADS--- •SEE• UNDER MODIFIER

DYNAMICS
1146 1783 1788 1897 1898 1905 1906 2134 2251 2495
2496 2671 3146 3148 3774 4126 4127 4130 5085 5087
5089 5091 5092 5579 5680 6504 6756 7199

ELASTIC BODIES
0037 0840 1781 1899 2988 3151 3340 4128

RIGID BODIES
2428 2812 2998 2999 3007 3150 3633 3778 3779 4321
4322 4333 4337 4457 4458 4775 5088 5581 5582 5587
5590 5596 5902 6034 6035 6036 6252 6258 6259 6739
6762 6767 6868 6873 6877

STRUCTURES
2120 6875

•SEE ALSO•--- VIBRATION -- AIRPLANE, DYNAMIC LOADS
IMPACT

E

EARTH PRESSURE
0191 1397 2066 3045 3967 3968 4396 5002 5244 6428

EARTHQUAKES--- •SEE• SEISMOLOGY, EARTHQUAKES

EFFUSION
1197

EIGENVALUE PROBLEMS
2819 4845 5669 5909 6140

•SEE ALSO•--- BOUNDARY-VALUE PROBLEMS

EJECTORS
1642 3485 4047 4719 4720 5960 5961

ELASTIC CONSTANTS OF MATERIALS
0471 0477 0816 0830 1300 1441 1674 2109 2670 2672
2676 2685 3335 3745 4631 4634 4638 5288 5867 6460
6926 6941

ELASTIC FOUNDATIONS

BEAMS
0110 0722 1878 2570 2571 2572 3124 3294 3877 3879
4496 4527 4528 4555 5185 5749 5750 5775 6322

PLATES
0122 0709 1966 2585 6294 6335 6336 6932 6953

STRUCTURES
0343 0713 2597 3888 5883 6334

ELASTIC WAVES--- •SEE• WAVE MOTION, ELASTIC

ELASTICITY
0609 1230 1674 2495 2496 3178 3281 3747 3774 4648
5052 5092 5240 5680 5869 5900 5901 6418 6922 7020
7021 7035

ANISOTROPIC
0083 0673 0675 1936 1952 2548 3822 5719 6296 6927
6928 7046

ELASTICITY •CONTINUED•

NONHOMOGENEOUS MEDIA
0668 0670 0702 1295 1950 1953 3808 3823 3824 3828
4495 5138 5139 5718 6928 6940

THREE DIMENSIONAL
0614 0667 0805 1238 1292 3766 3807 3809 3811 3826
4433 4497 5127 5708 5710 5711 5712 5719 6243 6922
6970

THREE DIMENSIONAL, DISCONTINUOUS
0686 3190 5709

THREE DIMENSIONAL, LINEAR
0067 0068 1291 1294 1298 1299 1891 1935 1947 2546
3176 3177 3184 3189 3281 4449 5063 5126 5140 5660
5661 5706 5751 6295

THREE DIMENSIONAL, NONLINEAR
0665 0688 1124 1297 1936 1937 1938 2544 3187 3846
4445 6288 6292

TWO DIMENSIONAL
0075 0083 0111 1296 1304 2547 3196 3810 3816 3821
3823 3824 5707 6916 6928

TWO DIMENSIONAL, DISCONTINUOUS
0069 0078 0686 3179 3180 3181 3182 4495 6297 6921

TWO DIMENSIONAL, LINEAR
0070 0072 0074 0120 0483 0669 0677 0728 1285 1286
1288 1289 1290 1337 1352 1934 1935 1939 1940 1941
1942 1943 1944 1945 1948 2539 2540 2541 2542 2543
2545 2549 2568 3183 3185 3186 3237 3812 3813 3814
3825 4493 4494 4520 4521 4523 5128 5129 5130 5131
5132 5133 5134 5135 5138 5139 5161 5715 5718 6289
6290 6291 6293 6917 6918 6919 6920 6923 6939 6962
7030

TWO DIMENSIONAL, NONLINEAR
0085 0116 0665 0666 0711 3188 3195 3862 4530 5136
7071

•SEE ALSO•--- ANISOTROPIC MEDIA -- BEAMS --
COMBINED LOADING -- CONTACT PROBLEMS --
DISLOCATION THEORY -- ENERGY METHODS --
INTERFERENCE FITS -- STRAIN AND STRESS --
STRUCTURES -- THERMOELASTICITY -- TORSION

ELASTOMERS
0666 1674 2113 3340 3342 3740 5853 6462

•SEE ALSO•--- RUBBER

ELASTOPLASTICITY
0097 0609 0687 0689 0692 0693 0694 1313 1324 1968
1970 1975 2554 2555 2562 2564 3335 3851 4015 4513
5150 5151 5153 5156 5733 5881 5887 6305 6307 6309
6314

ELECTRIC ANALOGIES--- •SEE• ANALOGIES

ELECTRIC STRAIN GAGES--- •SEE• STRAIN GAGES,
ELECTRIC

ELECTRONIC INSTRUMENTATION--- •SEE• INSTRUMENT
ENGINEERING

EMBANKMENTS--- •SEE• DAMS

EMISSIVITY--- •SEE• THERMAL PROPERTIES, EMISSIVITY

ENCYCLOPEDIA
5053

ENERGY METHODS
1196 1302 1457 1458 1794 1898 2416 2503 2509 3209
3385 4017 4452 5014 6479 6511 6793

ENGINES
1082 1084 2349 2916 3112 3471 3739 4403 4404 4415

ENGINES •CONTINUED•
4883 4884 5035 5048 5050 5505 6040 6125 6231 6829
6832 7310 7431

DIESEL
1083 2917 3566 4637 6699

SPARK IGNITION
2352 5506

•SEE ALSO••--- JET ENGINES -- LUBRICATION -- VIBRATION, ENGINES

EQUATIONS
3746

ALGEBRAIC
0017 0623 1886 3121 3145 6246

DIFFERENCE
0018 1231 1242 3012 3126 4431 4432 5063 5074 5076
5390 5756 6343 6942

DIFFERENCE - DIFFERENTIAL
0021 1885 3123 3933 6807

•SEE ALSO••--- DIFFERENTIAL EQUATIONS -- INTEGRAL EQUATIONS -- INTEGRO-DIFFERENTIAL EQUATIONS -- NUMERICAL ANALYSIS

EQUATIONS OF STATE
1001 1670 1672 1673 2847 2848 2849 2852 2853 4182
6052 6053 6055 6059 7229 7234

EROSION
0897 3044 3322 3734

ERROR THEORY
0016 0017 0619 1195 1883 4222 4821 4842 5569 6044

EVAPORATION--- •SEE• MASS TRANSFER, EVAPORATION

EXPERIMENTAL STRESS ANALYSIS
0065 0219 0802 0806 0807 0810 1424 2087 3326 3330
3331 3341 4628 5820 5861 5862 6454 7048 7054
7059 MAY FEATURE ARTICLE

ELECTRICAL
1168 2089 2099 2100 2534 3174 3328 3613 4294 4311
4629 5275 7373

MECHANICAL
0062 1168 1428 3626 3815 3820 4303 5766

OPTICAL
0801 0804 0805 0808 5274 5858 6331 6455 6456 6459
7047 7058 7366

EXPLODING WIRES--- •SEE• WIRES, EXPLODING

EXPLOSION
1161 2349 2764 4338 4339 4341 4867 5497 6778

EFFECTS ON STRUCTURES
0189 0540 4654 5323

HYDRODYNAMICS
0516 0517 0906 1162 1803 1805 2206 2213 2239 2438
2439 3434 4981 4982 4983 4990 6178 6184 6774 7409
7410

•SEE ALSO••--- DETONATION AND DEFLAGRATION

EXPLOSIVES
0514 1160 2439 4340 6778 7299

EXTERNAL BALLISTICS--- •SEE• TRAJECTORIES

EXTERNAL FLOW--- •SEE• BODIES, FLOW PAST WITH APPROPRIATE MODIFIER

EXTRUDING
0193 0194 0195 0798 0820 1403 1404 1443 2069 3301
3302 4610 4615 4616 5251 5252 5253 5849 7029

F

FANS
4116 5934

AXIAL
0965 2276 4151 4152 6605

CENTRIFUGAL
1641 7208

FATIGUE
0201 0203 0813 1417 1419 1420 2080 2083 2661 2664
3334 3980 3986 3987 3988 4620 4622 4623 4624 5262
5263 5265 5846 5848 5852 5855 6230 6448 6823

ANALYSIS
0268 1421 2081 3376 3981 3982 5264 5266 5845 5854
5895 7039 7042 7043

BEAMS
2636

BLADES
3319

DAMAGE
2081 2085 3316 3954 3985 5847 6451 6461

EXPERIMENTAL METHODS
0495 1422 2084 2100 2680 3318 3333 3980 3983 4004
4639 5868 6461 6463 7040 7041

JOINTS
2143 2144 2145 5327 5328 5850 6449

LOW CYCLE
1416 1433 2660 3321 3954 3979 6449 6450 7038

MACHINE ELEMENTS
0268

PLATES
2663

PROPERTIES OF METALS
0829 2082 3320 3980 3984 3990 3991 4635 5262 5278
5285 6466 6475 7044 7045 7368

PROPERTIES OF NONMETALS
0235 2113 4639 4643 5851 5853 6473

ROLLING CONTACT
3317

STRUCTURES
0209 0224 1415 4026 4599 4946 5808

THERMAL
7368

•SEE ALSO••--- CREEP

FIBERS AND FABRICS
0233 0234 0237 0238 1433 2689 2690 4003 5289 6471
6488

FILM COOLING--- •SEE• MASS TRANSFER, FILM COOLING

FILTERS
0538 0539 1506 1822 1823 3068

FILTRATION
1645 2462 3044

FILTRATION •CONTINUED•

•SEE ALSO•--- SIEVING

FINISHING
0788 3296 3307

•SEE ALSO•--- POLISHING

FLAME
2349 2914 3024 4882 5503 5505 6113 6181

COMPOSITION
3562 5506 5508 6690

DIFFUSION
1715 2911 3547 3551 3552 3554 3563 4866 5498 5507

INVERTED
2356 2915

LAMINAR
1078 1079 1081 1716 2353 2908 2909 3549 3553 4866
4868 4912 5496 5507 6690

PROPAGATION
0422 0423 0515 1079 2352 2906 2908 2910 3546 4866
4869 5495 5496 5499 6179 6691 7298 7307

STABILIZATION
1716 3550 4868 5504 6116

STRUCTURE
0424 2354 2911 3549 3563 5507 7409

TEMPERATURE MEASUREMENT
1081 2911 3561 5507 6690

TURBULENT
0425 2354 2910 2913 3546 3552 4866 4869 4871 4879
5498 6117 6124 6692 7297 7298 7300 7305

VELOCITY MEASUREMENT
0424 2353 2909 2911 2913 3030 3547 3548 3549 3552
3554 4867 5497 5507 6690 7297 7298 7299 7300 7307

VIBRATION
0426 1717 2912 2913 3557 3558 3559 3560 4868 4877
5500 5501 6120 6123 6776 7301 7302 7304

•SEE ALSO•--- COMBUSTION

FLAMMABILITY--- •SEE• COMBUSTION, INFLAMMABILITY

FLASHBACK--- •SEE• COMBUSTION, FLASHBACK

FLIGHT

SIMULATION
2299 2983 3004 4944

UNSTEADY
0941 0944

FLIGHT TESTING
0993 0994 0997 1664 1665 1751 4938 5551 6627

AIRPLANES
0943 0987 2817 2838 2983 4448 4937 6034 6635 6736
6737 7182 7343

MISSILES
0891 0996 4327 6035 6036

FLOCCULATION
1177 7433

FLOODS--- •SEE• STREAMS, NATURAL

FLOTATION
3044 7435

FLOW MEASUREMENT
0355 0855 0861 0974 1197 1247 1599 1646 2285 2830
2831 2832 3488 4041 4042 4048 4073 4355 4710 4800
4801 5437 6201 6611 6612 6613 6614 6615 6616

ELECTRONICS
0970 1115 1643 2215 2758 6021

ISOTOPE TYPE
6021 7145

NOZZLES
0972 4081 7408

ORIFICES
0870 3489 4740 4751 5397 5445

VARIABLE AREA
0973 1645

VOLUMETRIC METERS
1643 1645

•SEE ALSO•--- PRESSURE MEASUREMENT -- WEIRS

FLOW THROUGH POROUS MEDIA--- •SEE• POROUS MEDIA, FLUID FLOW

FLOW VISUALIZATION--- •SEE• OPTICAL TECHNIQUES

FLUE GASES
4870

•SEE ALSO•--- AIR PREHEATERS

FLUTTER
1207 1750 1751 1855 2389 2391 2975 5547 6730 6736
6737 7337 7341

HELICOPTER ROTORS
0467 0498

NONCLASSICAL
0469

PANEL STRUCTURES
1746 4285 4286 4287 4946 5553 7342 7343 7345

PROPELLERS
1754

TAILS AND CONTROL SURFACES
1748 2973 4288 5546 5548 5549 6541 6731

THERMAL EFFECTS
5552

TURBO MACHINES
0470 6017

WINGS
0466 1747 1749 1755 4284 4289 5545 5550 5551 6541
6735 7338 7339 7340 7344

•SEE ALSO•--- AIRFOIL AND WING, OSCILLATING -- UNSTEADY FLOW -- VIBRATION, AIRPLANES

FLYING BOATS--- •SEE• SEAPLANES AND FLYING BOATS

FORGING
0193 0195 0789 0792 0798 1403 1404 2071 3295 3296
4610 5250 5281 5832 6468 MARCH FEATURE ARTICLE

FOUNDATIONS
0247 0679 0785 0786 0803 1400 1475 2060 2061 2062
2063 2064 2065 2458 2648 5245 5247 5250 5870 6316
6393 6431 6490 6491 7025 7075

•SEE ALSO•--- VIBRATION, FOUNDATIONS

FOURIER SERIES--- •SEE• SERIES EXPANSION, FOURIER SERIES

FRACTURE
0201 0202 0205 0686 0687 0801 1435 2075 2077 2078 2656 2657 2659 2661 2662 3308 3310 3978 4001 6444 6448 7035

BRITTLE
0204 0208 0823 2076 2658 3311 3312 3313 3970 3971 3972 3973 4618 4619 5259 5260 5263 5856 6443 6445 6446 7036 7037

CREEP
1956 2074 4633 5286

DUCTILE
1971 2683 4510 5154 6319 6467 6475

•SEE ALSO•--- CRACK PROPAGATION

FRAMES AND BENTS
0241 0837 1460 1462 1463 1465 1466 1467 1483 2114 2119 3363 3365 3378 4007 4010 4011 4014 4581 4656 4657 4658 4659 4660 4662 4663 5300 5301 5302 5304 5305 5879 5881 5882 6480 6482 6484 6486 6487 7070

STABILITY
3361 4661 5739 6483

STRESSES AND DEFLECTIONS
1244 1970 3362 6485 7064

•SEE ALSO•--- BUCKLING, FRAMES AND BENTS

FREE MOLECULE FLOW--- •SEE• RAREFIED GASES

FREEZING
1066 2890 4187 6092

FREQUENCY RESPONSE--- •SEE• AUTOMATIC CONTROL, FREQUENCY RESPONSE

FRETTING
3108 3730 3736 4407 7045

•SEE ALSO•--- CORROSION -- WEAR

FRICTION
1133 1216 1217 2679 3119 4308 5093 6600 6823 6876 7006

ROLLING, SOLID AND SOLID
2482 3729 4401 7454

SLIDING, SOLID AND SOLID
0578 0579 0580 0636 1020 1218 1859 1861 1863 2483 3105 3733 3737 4292 4397 4398 4399 4400 4401 4406 5032 5033 5035 5036 5037 5038 5647 6229 6642 6824 6825 6826 6827 6828 7031 7251 7449 7450 7451 7453 7455 7456

SLIDING, SOLID AND FLUID
0636 2483 2485 3732 5039 5332

•SEE ALSO•--- DAMPING CAPACITY OF MATERIALS

FUELS
2349

GASEOUS
6118 7408

LIQUID
0366 1082 6770 7408

SOLID
1077 1080 1719 1720 7408

FURNACES
0391 0402 1702 2361 3530 4195 4838 4851 4872 5502 6529 6693 7309

G

GAME THEORY
0015 6251

GAS DYNAMICS--- •SEE• COMPRESSIBLE FLOW

GAS TURBINES--- •SEE• TURBINES, GAS

GASES--- •SEE• UNDER MODIFIER

GATES, HYDRAULIC--- •SEE• VALVES AND GATES

GEARS
DESIGN
2131 2138 3384 5314 5315 5316 5673 6503 7082

FATIGUE AND WEAR
3384

KINEMATICS
4455 6502 7078 7082

LUBRICATION
0583 0608 3110 3119 3743

TRAIN
4036 4674 6252

•SEE ALSO•--- WEAR

GEOPHYSICAL EXPLORATION
0561 0562 0563 0564 0565 1839 1840 1841 3081 3083 5013 5015 5248 5634 5635 5636 7387 7388

GIRDERS
0214 1244 1468 1469 1470 1483 2095 2115 2117 2118 2696 3366 3367 5259 6478 7072

GLASS
0232 2336 2337 2339 2340 2341 2342 2343 2344 2345 2884 2898 3541 4640 4641 7285

GLASS FIBERS
0233 0234 0235 0236 0261 1155 2112 3346 3347 5627 6470 6473

GLIDERS
2295 2838 2987 4815

GRANULAR MEDIA
0531 1833 2869 5610 5611 5613 7432

GRAPHICAL METHODS
0419 3136 3137 4076 4079 4454 4858 5078 5489 6655

GRINDING
0800 1213 3296 4402 5257 5612 5648 7062

•SEE ALSO•--- FINISHING

GROUND WATER--- •SEE• HYDROLOGY, GROUNDWATER

GUIDANCE SYSTEMS
0058 1149 1268 1784 2531 2533 3010 3012 3016 3167 3168 4325 4328 4329 4337 4482 4483 5700 5701 6283 6894

ACQUISITION
5702

AIRCRAFT
4484

INERTIAL
0056 0060 0656 1267 1926 2427 3011 3799 3800 3803 3805 4486 5120 5598 5699 6277

MISSILES
0061 2530 2999 3804 4312 4484 4485 5106

STABILITY
0658 1146 6167

GUIDED MISSILES--- *SEE* MISSILES

GUNS
0212 1806

GUST LOADS
0941 0944 2247 2976 4322 4778 4780 6734 7191

SEE ALSO--- AIRPLANE, DYNAMIC LOADS

GYROSCOPICS
0032 0657 0660 0661 1253 1254 1269 1889 1929 1932
2427 2480 2508 2535 2536 2537 2538 3100 3149 3175
3805 3806 4128 4459 4460 4461 4489 4490 5094 5125
5220 5704 6279 6284 6285 6286 6820 6877 6908 6915

SEE ALSO--- GUIDANCE SYSTEMS, INERTIAL

H

HANDBOOKS
0025 0035 1401 1453 1909 1933 2469 2715 5053

HARBORS
4102 5997

HARDENING
0820 2104 2566 3591 4505 5336 6464

HARDNESS
0820 5281 6308 6446

TEST TECHNIQUES
7062

HEAT CONDUCTION--- *SEE* HEAT TRANSFER, CONDUCTION

HEAT CONVECTION--- *SEE* HEAT TRANSFER, CONVECTION

HEAT EXCHANGERS
0390 0411 0412 0413 1074 1676 2348 2862 2899 2901
2903 3543 4175 4218 4833 4858 4861 5491 6683 6685

CROSSFLOW
2334

NUCLEAR REACTORS
0376 4829 7289

SEE ALSO--- AIR PREHEATERS -- BOILERS

HEAT PUMPS
0998 1006

SEE ALSO--- REFRIGERATION, AIRCONDITIONING

HEAT RADIATION--- *SEE* HEAT TRANSFER, RADIATION

HEAT TRANSFER
0389 0391 0392 0413 0419 0897 0982 0989 0998 1058
1066 1073 1075 1150 1250 1540 1676 1712 1801 2185
2188 2219 2321 2322 2343 2344 2345 2753 2760 2871
2875 2876 2889 2995 3513 4072 4078 4187 4188 4199
4254 4828 4830 4843 4860 5374 5448 5589 6094 6104
6129 6638 6650 6675 6687 7254 7260 7267 7292

BOILING
0372 0404 1046 1047 1048 1049 1050 1055 1676 1703
2330 2331 2891 2892 3527 3536 3537 4207 4208 4828
5480 6088 6638 6671 6672 6673 7271 7272 7274 7275
7276

BOUNDARY LAYER
0891 0893 0920 0994 1037 1048 1053 1570 1687 1693
1705 2220 2789 2793 2794 2800 2874 2882 2895 3437
3439 3440 3443 3452 3524 4187 4201 4203 4212 4754
4758 4854 4855 4935 5405 5406 5466 5970 5971 6083
6638 6647 6653 6654 7107 7156 7161 7264 7291

HEAT TRANSFER *CONTINUED*

BOUNDARY LAYER, WITH SEPARATION
0294 0924 0996 2795 3526 4167 4187 6653 7156 7164

BOUNDARY LAYER, WITHOUT SEPARATION
0254 0385 0386 0397 4187

CHEMICAL REACTION PRESENT
1233 1571 1706 1707 2193 4213 4214 5410 5525 5978
6638 6681

COMBINED MECHANISMS
0382 1034 1041 1676 1680 2331 3007 4197 5014 5467

CONDENSATION
0372 0405 0406 0407 0907 1051 1676 1705 2891 4210
4828 4853 7277 7278

CONDUCTION, STEADY
0372 0452 1017 1237 1551 1676 1679 1683 1741 1880
2312 2313 2315 2316 2856 2857 2860 2863 2864 2866
2867 2880 2884 2886 2964 3590 3772 4187 4192 4249
4250 4832 4833 4834 4835 4837 5059 5075 5456 5457
5460 6081 6640 6643 6662 6849 7253 7256

CONDUCTION, UNSTEADY
0004 0320 0373 0374 0375 0376 1015 1016 1018 1020
1021 1023 1676 1677 1678 1679 1680 1681 1682 1683
1713 2313 2314 2315 2858 2859 2861 2865 2893 2894
2904 3514 3515 3519 3521 4187 4189 4191 4202 4222
4428 4831 4832 4834 4836 4837 4838 5458 5459 5461
5472 5476 5493 6092 6641 6852 7251 7252 7255 7257

CONVECTION, FORCED, GASES
0384 0387 0535 1551 1676 1684 1685 1686 1688 1690
3518 3519 3520 3524 4063 4187 4194 4195 4197 4198
4251 4839 5385 5460 5462 5463 5464 5580 6082 6083
6085 6638 7258 7281 7291 7293

CONVECTION, FORCED, LIQUIDS
0381 0383 0526 1027 1028 1049 1055 1676 1684 2323
2326 2873 3518 3519 3520 3522 4062 4187 4194 4197
4198 4840 4841 4848 5463 5465 5467 6083 6638 6657
7258 7259 7265 7271

CONVECTION, FORCED, MIXTURES
1048 1676 1704 2870 4187 4841

CONVECTION, FREE, GASES
0372 0451 1016 1025 1031 1033 1063 1676 1692 2324
2369 2370 2877 2878 2893 2894 2963 3591 4063 4187
4194 4195 4197 4252 4847 5466 5468 5469 6087 6638
6654 7262 7263 7264

CONVECTION, FREE, LIQUIDS
0372 0395 0396 0398 1032 1035 1056 1063 1676 1691
2877 2878 3523 4187 4194 4197 4217 4846 4847 4848
5466 5467 5468 6087 6638 6654 7262 7263 7264 7275

ELECTRICAL MACHINES
0372 2861 2902

EQUIPMENT, EXPERIMENTAL
0372 0400 0414 0415 0416 2305 2310 3517 6096 6100
7293

EXTENDED SURFACES
0383 1067 1676 1700 6093 6664 6665 6682 6683

FOOD INDUSTRY
0377

INSULATION
1022 1042

MEASUREMENTS
0294 0307 1041 1676 3425 4812 5405 5490

METEOROLOGY
1850 6803

HEAT TRANSFER •CONTINUED•

PACKED BEDS
0372 0374 0382 1025 1712 2869 4844 6679

RADIATION
0372 0402 0417 0628 1040 1041 1043 1044 1676 1694
1695 1697 1698 1700 1702 1735 1845 1850 2311 2327
2329 2337 2338 2340 2346 2358 2380 2457 2880 2882
2883 2885 2959 2966 3525 3530 3533 4187 4205 4240
4241 4247 4828 4851 4852 4881 4911 5385 5475 5479
5485 5580 6097 6098 6101 6103 6146 6555 6556 6638
6662 6666 6668 6718 7266 7268 7270 7295

RADIATION, ABSORBING TRANSMISSION MEDIA
0403 1038 1676 2339 2358 2886 2887 3528 4187 4852
5485 5978 6662 7266 7268

RADIATION, GEOMETRICAL PROBLEMS
0401 1039 1696 1700 2327 2328 2358 2879 2881 2888
3528 3529 3533 4187 4205 4839 6638 6663 6664 6665
6669

RADIATION INSTRUMENTS
0400 0417 1695 1701 3534 5477 5478 6100 6102

RADIATION, UNSTEADY
0403 1016 1676 3534 3535 4187

RAREFIED GASES
2781 4088 4187 4742 4828 4853 5386 5444 6668 7463

SOIL
0379 0380 0418 1019 1398 1683 2347 6689

SUBLIMATION
0405 1057 1685 1710 5489

SURFACE ROUGHNESS EFFECT
2794 6803

THERMAL STORAGE
7216

TURBINE BLADES
1635 1638 2320 4451 6603 6677 7207

TURBULENT
0383 0384 0387 0388 0394 1024 1690 1848 2335 2868
2870 3522 3527 4108 4196 4845 5473 6084 6638 6646
6648 6656 7207 7260 7261 7273 7279 7281 7283 7305

VIBRATION EFFECT
0393 1023 6082 6649

•SEE ALSO•--- ABLATION -- AERODYNAMIC HEATING -- AEROTHERMODYNAMICS -- ANALOGIES, HEAT TRANSFER -- BOILERS -- BOUNDARY LAYER -- COMBUSTION, HEAT TRANSFER ASPECTS -- CUTTING PROCESSES -- DIFFUSION, THERMAL -- DRYING -- FREEZING -- FURNACES -- LIQUID METALS -- MASS TRANSFER, EVAPORATION -- MELTING -- METEOROLOGY HEAT TRANSFER

HEAT TREATMENT
0105 0199 0788 2071 2104 2107 2345 4634 5279 6464

HEATING AND VENTILATION
1016 2324 2349

•SEE ALSO•--- REFRIGERATION, AIRCONDITIONING

HELICOPTER
0934 1173 1661 3670 4948

ROTOR
5429

STABILITY
3630 4125 5446

•SEE ALSO•--- VIBRATION, HELICOPTERS

HELIUM
0893 1053 1061 2853 3536 4183 6028 6055 6062 6648
7239

HIGH ENERGY FUELS
5509 6696

HIGH LIFT DEVICES
0978 2295 2807 2986 4774 4805 4815 4950 5990

HIGH TEMPERATURE PROPERTIES OF MATERIALS
0203 0210 1436 1702 1715 2148 2675 2682 2847 2848
3373 3517 3535 3577 3842 4820 4862 5451 6054 6058
6074 6101 6452

FERROUS
0473 0476 0820 0822 0824 0831 2103 2683 2687 3203
3350 3351 3621 3623 3625 4296 4303 4508 4634 5144
5280 5281 6162 6163 6301 6475 7246 7365

NONFERROUS
0475 0820 0830 1132 1441 1442 1766 1963 2110 2346
3203 3216 3348 3355 3356 3623 3624 3745 3839 3855
3989 4296 4297 4302 4303 5146 5286 5291 5326 5726
5728 6099 6163 6164 6477 6933 7365

HIGHWAY AND RUNWAY CONSTRUCTION
3377 3965

HODOGRAPH METHODS
1541 1552 2272 2458 3002 3477 4076 4692 4753 6629
7395

HUMAN ENGINEERING
3004 4480 4481 4482 4483

•SEE ALSO•--- BIOMECHANICS

HYDRAULIC JUMP
2265 3467 4690 5922 5937

HYDRAULICS
0975 1192 2156 2268 2288 4686 5276 5340

DENSITY CURRENTS
2731 3397

DYNAMICS OF LIQUIDS
1501 1504 3713 4450 4697 5677 6216 6407

•SEE ALSO•--- BACKWATER CURVES -- CANALS -- CAPILLARY FLOW -- CAVITATION -- CHANNELS -- FLOW MEASUREMENT -- HYDRAULIC JUMP -- HYDRAULIC STRUCTURES -- PIPE FLOW -- SEEPAGE -- STREAMS, NATURAL -- SUBMERGED BODIES -- VALVES AND GATES WATER HAMMER

HYDRAULIC STRUCTURES
1192 1478 1479 1480 2703 2715 3051 4697 5350 6205
6213 6489

CONDUITS
0951 1482 1503 2158 2160 2718 3394 4043 4691 4696
5916 5917 5918 5920

DAMS
1187 2122 2461 4689

ENERGY DISSIPATORS
0856 1507 2157 2730 4690

SPILLWAYS
0857 2161 2724 2725 2726 3398

TRANSITION ELEMENTS
2717 2721 3396 6518

WEIRS
0847 1508 3392 4694 4698 6512

HYDROCARBONS
0366 1069 2460 2907 2912 3078 3554 4843 6120

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Issue:	January	February	March	April	May	June	July	August	September	October	November	December

HYDRODYNAMIC STABILITY
0324 0340 1526 1528 1530 1532 2174 2178 2179 2736 4704 4707 4708 4716 5354 5355 5371 5939 5941 6535 7091

•SEE ALSO•--- BOUNDARY LAYER, STABILITY

HYDROELASTICITY
1207 6407

•SEE ALSO•--- AIRFOIL AND WING, OSCILLATING

HYDROELECTRIC POWER PLANT--- •SEE• POWER PLANT, HYDROELECTRIC

HYDROFOILS
0576 1207 1208 1209 1210 1855 1856 2478 3103 3721 3722 3727 3728 4049 4394 5550 5641 5646 6019 6033 6228 6622 6815 6818 6819 6820 6821 6822 7209

HYDROLOGY
1192 1200 5016 5999 6791 6792

GROUNDWATER
1827 3393 5437 6203 6204 6427 6779 7444

RAINFALL
1200 5018

RUNOFF
1514 1515 1645 5018 6517

SOIL AND WATER CONSERVATION
6213

•SEE ALSO•--- METEOROLOGY -- OCEANOGRAPHY -- SEEPAGE -- WELLS

HYDROPLANE--- •SEE• SEAPLANES AND FLYING BOATS

HYSTERESIS EFFECTS
1419 4002 5159 5333

I

ICE
3700 5350 6433 6792

ICING
3044 4779 5995

IGNITION
0420 0421 1716 1720 2349 2350 2351 2357 2906 2907 3561 4867 4877 5508 6114 6115 6697 7294 7295 7296

IMPACT
0815 1363 1492 2011 2051 2319 2635 3269 3334 3344 3345 3959 3960 3963 3964 3987 4568 4592 4594 4601 5241 5242 5810 5820 6404 6417 6419 7012

BEAMS, LATERAL
0173 0176 0223 0687 0777 2046 3282 6323

BEAMS, LONGITUDINAL
0171 0172 0687 2641 4596

HYPERVELOCITY
0781 2828 3657 3959 4601 4968 6764 7411

PLATES
0175 0177 0776 4595 4993 5274 5843 6409 6416 7411

SHELLS
0781 3880 6414

SHIP HULLS
0687

IMPACT •CONTINUED•

STRUCTURES
0165 0182 0687 0771 0781 2046 3962 3963 3964 5241 5242 5250 6414

TESTS OF MATERIALS
0223 0225 1390 1411 2657 2671 2674 2828 3960 3963 3964 4158 4340 4601 5241 5843 6415 7411

VEHICLES
0496 0501 0508 3963 4975

WATER
0330 0496 0956 2829 3392 4049 5436 7200

•SEE ALSO•--- AIRPLANE, DYNAMIC LOADS -- LANDING AND TAKEOFF -- SHOCK WAVES IN SOLIDS

IMPINGEMENT OF DROPS
0533 3044 3470

•SEE ALSO•--- ICING

INCOMPRESSIBLE FLOW
0609 0861 0872 0927 0928 0930 0933 1029 1529 1563 1566 1599 1632 1775 1776 2167 2168 2268 3769 3770 4048 4111 4423 4702 4961 5368 5390 5392 5431 6563 6624 7156

NONVISCOUS FLOW
0276 0277 0279 0280 0282 0862 0864 1024 1524 1525 1526 1527 1528 2167 2168 2169 2171 2172 2173 2175 2732 2734 2738 2941 2942 2952 2953 3399 3400 3402 3403 3586 4048 4050 4051 4071 4237 4428 4450 4703 4704 4718 4898 5425 5426 5428 5516 5675 5929 5930 5931 5934 6629 6849 7087 7088 7089 7090 7099 7100 7101 7103 7206

NONVISCOUS FLOW, ROTATIONAL
0865 0871 2174 2199 2733 2735 3401 3481 4052 4054 4056 6657

STABILITY
0278 0283 0289 0290 0291 0292 0866 0867 1530 1532 1622 2178 2179 2736 2952 2953 3386 4062 4069 4707 4708 4716 5354 5355 5363 5371 5909 5932 5939 5941 6535 6566 7091 7192 7204

VISCOUS FLOW
0278 0285 0287 0289 0868 0869 0915 0916 1028 1531 1539 1622 2176 2177 2182 2286 2743 3404 3405 3410 3414 4057 4060 4063 4066 4068 4070 4141 4721 4913 5352 5353 5369 5943 6525 6526 6527 6528 6532 6533 6534 6537 6538 6566 6650 7096 7104 7106 7110

VISCOUS FLOW, HEAT ADDITION
3414 5913 7107

VISCOUS FLOW, HIGH VISCOSITY
1221 2742 3406 3407 4680 4706 4710 4711

VISCOUS FLOW, MASS ADDITION
2271 3411 7282

VISCOUS FLOW, MULTIFLUID
0870 4717 5359 5932 5933 5938 5939 7103

VISCOUS FLOW, MULTIPHASE
0870 1030 2741 2825 3408 3409 4713 5357 5358 5935 5936 5937 6198 7095

VISCOUS FLOW, SECONDARY
2739 3404

•SEE ALSO•--- BODIES, INCOMPRESSIBLE FLOW PAST -- CAVITATION -- DRAG AND LIFT -- FLOW MEASUREMENT HYDRAULICS -- HYDROLOGY -- JETS -- MULTIPHASE FLOW -- ROTATIONAL FLOW -- SECONDARY FLOW -- TURBULENCE -- UNSTEADY FLOW -- WAKES -- WINGS

INERTIAL GUIDANCE--- •SEE• GUIDANCE SYSTEMS, INERTIAL

INFLAMMABILITY--- *SEE* COMBUSTION, INFLAMMABILITY

INFLUENCE LINES
1472 1473 2126 4649 5307 7070 7072

INFORMATION THEORY
0023 0024 6856

SEE ALSO--- PROBABILITY THEORY

INFRASONICS--- *SEE* ULTRA- AND INFRASONICS

INITIAL VALUE PROBLEMS
3461

INLETS
0315 1637 3416 3418 7141 7142 7149

INSTRUMENT ENGINEERING
0974 0975 0976 0977 0979 0981 0986 2832 2833 2835
3011 3012 3482 4145 4160 4165 4168 4171 4859 5273
5490 6453 6806

ELECTRICAL
0356 0970 1826 3014 4766 5438 7009 7223

ELECTRONIC
2834 3014

HYDRAULIC
0973 1825 2452 2831 4383

INSULATING MATERIALS
4193 5458 5472 7267

INTEGRAL EQUATIONS
0280 0615 0621 1878 3145 3752 4433 4434 5009 5062
5663 6844 6852

INTEGRAL TRANSFORMS--- *SEE* OPERATIONAL METHODS

INTEGRO-DIFFERENTIAL EQUATIONS
1232 1306 1879 5064 6006 6852

INTERFACE PHENOMENA
0820 0904 1839 1842 1844 1848 3042 3277 3307 3957
4172 5022 5932 5936 6209 6788 7018 7269

INTERFERENCE AND COUPLING--- *SEE* AERODYNAMIC INTERFERENCE

INTERFERENCE FITS
5904

INTERNAL COMBUSTION ENGINES--- *SEE* ENGINES

INTERNAL FRICTION--- *SEE* DAMPING CAPACITY OF MATERIALS

INTERPOLATION--- *SEE* NUMERICAL ANALYSIS, INTERPOLATION

IONIC PROPULSION--- *SEE* PROPULSION, IONIC

IRREVERSIBLE THERMODYNAMICS--- *SEE* THERMODYNAMICS, IRREVERSIBLE

ITERATION--- *SEE* NUMERICAL ANALYSIS, ITERATION

J

JET ENGINES
1092 1169 1171 1715 1810 1811 2349 2921 2924 2930
3110 3569 3680 5602

TURBOJET
0298 0299 0432 0434 0435 1172 2920 2922 2923 2925
3679 4227 4773 5376 7179

JET ENGINES *CONTINUED*

SEE ALSO--- COMBUSTORS -- PULSEJETS -- RAMJETS

JET FLAPS
0930 0983 2836 2986 4163 5429 5430 5989

JETS
0911 0933 1170 1171 1809 1812 2444 2758 2990 2991
2992 3034 3455 3456 3457 3667 4047 4095 4763 4942
4943 4961 5678 6187 7108

COMPRESSIBLE FLOW
0431 0883 1098 1723 2381 2806 2947 3423 3680 4746
4921 5532

COMPRESSIBLE FLOW, DIFFUSERS
0912

COMPRESSIBLE FLOW, EJECTORS
4747 5960 5961 6559 6562

COMPRESSIBLE FLOW, INJECTORS
0316 4748 7148

COMPRESSIBLE FLOW, NOZZLES
0909 1165 1546 1551 1801 2184 2210 2753 3423 4101
4739 4743 4744 4745 4941 5373 5382 5398 5399 5400
5402 6560 6561 6631 6765 7116 7150 7151

INCOMPRESSIBLE FLOW
0282 0284 0291 0533 0534 1537 1591 1592 2170 2175
3410 4069 4163 4703 5933 6535 6536 7106 7107 7172
7437

INCOMPRESSIBLE FLOW, EJECTORS
3056

INCOMPRESSIBLE FLOW, HYDRAULIC
0859 3390 3391 6537

INCOMPRESSIBLE FLOW, NOZZLES
5334 6534

SEE ALSO--- FLOW MEASUREMENT, ORIFICES -- NOZZLES

JOINTS
2142 5311 5324 5904 7056

BOLTED
1493 6328

BRAZED AND SOLDERED
5906

GLUED
2148 5903 6507 6508

RIVETED
1432 2141 4037

WELDED
2143 2144 2145 2146 5259 5327 5328

SEE ALSO--- ADHESIVES -- FATIGUE, JOINTS

K

KEYS
7079

KILNS--- *SEE* FURNACES

KINEMATICS
1491 2133 3774 4031 5082 6504

ACCELERATION
0029 3007 4034 4035 4036 5685 7080

KINEMATICS •CONTINUED•

LINKAGES
0026 0267 0631 0632 0633 0634 0635 1490 1900 2135
2136 3775 3777 4032 4033 4034 4675 5082 5318 5319
5320 5321 5681 5682 5898 5899 6253 6254 6259 6506
6865 6867 6872 7081

SYNTHESIS
0026 0027 0028 0267 0631 0632 0640 1251 1901 2133
3775 4032 5683 5684 5897 7081

VELOCITY
0029 3007 3776 5086 5090

•SEE ALSO•--- GEARS

KINETIC THEORY
0902 0904 0905 3502 4828 7240

GASES
0359 0898 0903 1662 1663 1671 1742 2209 2212 2364
2708 2840 2940 3594 3598 3610 3673 4093 4177 4233
4240 4253 4262 4264 4265 4276 4735 4740 4741 4896
4914 5395 5396 5542 5589 5955 5956 6137 6138 6147
6557 6558 6723 7232 7320 7327 7332

•SEE ALSO•--- RAREFIED GASES

KNOCKING
2349 2907

L

LAMINAR FLAME--- •SEE• FLAME, LAMINAR

LAMINAR FLOW
0972 1197 1651 2831 2833 4722

COMPRESSIBLE FLOW
0893 2708 4728

INCOMPRESSIBLE FLOW
0283 0286 0287 0289 0342 1531 1644 2740 2742 3404
4053 4057 4062 4065 4070 4708 4709 4710 4717 6524
6525 6526 6527 6528 6532 6533 6535 6538 7091 7096
7110 7111

•SEE ALSO•--- CAPILLARY FLOW

LANDING GEARS
3729

LANDING AND TAKEOFF

AERODYNAMIC ASPECTS
0336 0497 1776 2990 3629 5990 7182

STRUCTURAL ASPECTS
3629

LANDSLIDES--- •SEE• SOIL MECHANICS, LANDSLIDES

LAPPING--- •SEE• GRINDING

LIFT AND DRAG--- •SEE• DRAG AND LIFT

LIMIT DESIGN--- •SEE• STRUCTURES, LIMIT DESIGN

LINEAR PROGRAMMING
0624 0625 1233 1890 3133 4438 4439 6249 6857

LINKAGES--- •SEE• KINEMATICS, LINKAGES

LIQUID METALS
0363 0390 0392 0395 0999 1074 2326 3577 4230 5511
6656 7265

LOCOMOTIVES--- •SEE• VEHICLES, LAND

LOW TEMPERATURE PROPERTIES OF MATERIALS
0231 1003 1323 1440 3210 3349 3356 3627 3628 4186
4310 6055 7248 7363 7372

LUBRICANTS
1082 3110 3111 3737 4417 7450

DRY FILM
3110

GAS
3107 3110 OCTOBER FEATURE ARTICLE

GREASE
2150 3110 4683

LIQUID
0590 1860 3107 3109 3110 3112 3731 3739 3740 6835

SOLID
3110 3737

LUBRICATION
3110 3267 3735 3937 6823 7458

BOUNDARY
0579 0584 0585 1215 1860 1866 1867 3107 3592 3731
3737 3738 3743 4422 5037 5040 5041 5042 7450

DRY FILM
3737

ELASTO-HYDRODYNAMIC
0586 0589 1219 1220 1869 3937 7460

HYDRODYNAMIC
0285 0586 0587 0588 0599 0603 0604 1219 1220 1221
1865 1868 2484 2486 2487 2488 2489 3113 3114 3115
4409 4410 4411 4412 4414 4418 4419 5046 5649 5650
5651 5652 5655 6233 6835 7457

HYDROSTATIC
0593 0594 0595 1219 2068 6834

•SEE ALSO•--- BEARINGS -- FRICTION -- GEARS -- WEAR

M

MACHINABILITY
0198 0788 2105 3304 4357 5837 5840 6436

MACHINE DESIGN
0025 0268 0269 0841 1489 3173 3345 3379 3380 3381
4674 5317 5673 5902 6243

•SEE ALSO•--- BELTS -- CAMS -- CHAINS -- CLUTCHES COUPLINGS -- KEYS -- KINEMATICS, LINKAGES -- SEALS -- SPRINGS

MACHINE TOOLS--- •SEE• TOOLS

MAGNESIUM AND MAGNESIUM ALLOYS
0820 5285

MAGNETIC-FLUID-DYNAMICS
0361 0540 2364 2758 2776 3019 3575 3576 4265 4267
4893 4894 4896 6131 6132 6706

AERODYNAMIC APPLICATIONS
0311 0450 0457 0462 0463 0630 1109 2365 2384 2777
3596 3765 4259 4275 4903 5442 7228 7334

CHANNEL FLOWS, COMPRESSIBLE
0442 0445 0446 1096 1097 1099 1730 2369 2370 2377
2943 2944 2947 2949 2960 2962 2964 3578 3582 3583
3585 3587 3588 3605 3607 4249 4250 4269 4900 4904
5514 5515 5516 5519 5530 6709 6718 6724 7316 7319
7336

MAGNETO-FLUID-DYNAMICS •CONTINUED•

CHANNEL FLOWS, INCOMPRESSIBLE
1104 1115 1741 2365 2366 2388 2939 2952 2953 2963
3579 3586 4098 4235 4237 4238 4251 4897 4898 4913
4916 5515 5516 5517 5518 5530 5539 5544 6141 6708
6710 6717 6725 7321 7322

CYCLOTRON RESONANCE / PARTICLE APPROACH /
0458 1100 1107 2940 3600 3609 4258 4276 5524 5531
5542 6137 6138 6140 6146

DIFFUSION IN PLASMAS
0449 1114 1742 2368 2378 3581 3592 3595 3599 4233
4240 4253 4257 4914 6147 6711 7318 7320 7324 7327
7332

ENERGY CONVERSION
0437 0452 0459 0460 0461 1113 1739 1740 1741 2364
2367 2379 3608 4243 4250 4251 4259 4260 4271 4273
4281 4282 4901 4902 4906 4922 4924 4925 4926 4927
5520 5540 5543 6723 6727

EXPERIMENTAL METHODS
0453 0461 1743 1744 2368 2375 2387 2950 3498 3579
4256 4908 5515 5522 5534 6149 6152 6712 6720 6729

HEATING OF PLASMAS
0454 0457 0461 0984 1105 1108 1727 1728 1736 1739
1740 2380 2381 2386 2387 2948 2970 2972 3590 3592
3593 3594 3597 3598 4254 4260 4272 4277 4278 4911
4912 4921 4923 5525 5532 5538 6146 6147 6152 6718
6723 7320 7327 7328 7330 7335

INTERACTION OF PLASMAS WITH EXTERNAL MAGNETIC FLDS
0443 0445 0447 0450 0451 0456 0458 0461 0462 0463
0464 0465 1098 1107 1109 1110 1114 1722 1723 1724
1728 1730 1743 1744 1745 2365 2368 2377 2378 2382
2384 2388 2944 2947 2948 2949 2951 2952 2953 2954
2971 3553 3591 3595 3596 3606 3609 4234 4252 4261
4263 4268 4270 4271 4273 4275 4279 4280 4281 4899
4905 4906 4913 4920 4922 4923 4924 4925 4926 4927
5517 5526 5531 5534 5535 5536 5537 5538 5540 5541
5543 6142 6144 6148 6150 6152 6711 6712 6713 6714
6720 6724 6726 6728 6729 7316 7317 7323 7324 7331
7336 7406

OBSTACLES, FLOW AROUND
0311 0443 0455 0456 1104 1109 1722 2365 2372 2374
2376 2382 2383 2941 2942 3580 3584 3587 3588 3601
3602 3603 3610 3612 4236 4239 4270 4903 5515 5525
6151 7317 7328 7329 7333

ROTATING FLOWS
1725 1726 3604 3611 4269 4899 4901 4902 6144

SHOCK TUBES, ELECTROMAGNETIC
0453 1116 1745 2371 2384 2957 2965 2967 4268 4279
4814 5529 5540

SHOCKS IN PLASMAS
0444 1105 1112 2945 2957 2970 4169 4257 4266 4268
4918 4919 5526 5528 6720 7329 7330 7331

SHOCKS IN PLASMAS, NORMAL
1110 1111 1116 2371 2373 2376 2385 2965 2966 2967
2968 4248 4255 4256 5527 5533 6721 6722

SHOCKS IN PLASMAS, COLLISION FREE
3589 4917 5527 5529 5533 5535

TURBULENCE / CONTINUUM APPROACH
2365 3611 4767 4915 5520 7322

WAVES, ELECTROMAGNETIC
1101 1102 1103 1106 1735 1736 1737 2367 2379 2380
2955 2959 2961 2966 2969 4240 4243 4245 4264 4274
4907 5521 5524 6145 6713 7325

WAVES, INTERACTION WITH BOUNDARIES
1737 4240 4242

WAVES, MAGNETOHYDRODYNAMIC
0448 1105 1729 1731 1732 1733 1734 2364 2385 2954
2956 2958 3589 3601 4241 4242 4244 4246 4247 4263
4264 4272 4909 4910 5522 5523 6143 6150 6715 6716
6719 7325 7326

MANOMETERS
1643 7211

MANUALS
1401

MARINE ENGINEERING
1203 1852 3028 3102 3104 3710 3718 3720 5227 5804
5805 6005 6006 6397

SHIP DESIGN
0262 0263 0577 1203 3718 3986 5861 6816

SHIP GUIDANCE
2481 6225 7001

SHIP HULLS
0268 0263 1205 1212 1485 1851 1858 2115 3102 3712
3716 3724 4391 5026 5028 6223 6813 6816 7002 7076
7102

SHIP MODEL EXPERIMENTS
2480 4135 4392 4393 6033

SHIP MOTION
0575 1204 1205 2479 3713 4139 5031 6225 6813 6814

SHIP MOTION, INLAND WATERWAYS
0574 1858 3101 5640 6820

SHIP MOTION, MODELS
0574 2480 3715 4393 5027

SHIP MOTION, SEAS
1204 1205 3100 3712 3716 3723 4393 5642

SHIP PROPULSION
2476 2477 2481 4135 4392 5030 5643 5644 6725

SHIP RESISTANCE
2255 3460 3711 4135 4392 4395 5640 5943 6224 6814

SHIP STABILITY
0577 1206 1853 1854 2479 3100 3710 3712 3714 3717
5640 6223 6225

SHIP TESTS
1858 5891 6454

SHIP TOWING
6822

SHIP WAVES
1625 1858 2253 2818 3460 3711 5435

•SEE ALSO•--- HYDROELASTICITY -- HYDROFOILS -- IMPACT, SHIP HULLS -- PROPELLERS, MARINE -- RUDDERS -- SHAFTS -- STRUCTURES, SHIP -- VEHICLE, SEA -- VIBRATION, SHIP HULLS

MARINE PROPELLERS--- •SEE• PROPELLERS, MARINE

MASS TRANSFER
0930 1031 1034 1035 1054 1057 1058 1064 1065 1066
1708 1712 1716 2870 2874 3544 3545 4211 4214 4705
4742 4854 5483 5486 5975 5983 6089 6104 6112 6210
6638 6689 7156 7279 JULY FEATURE ARTICLE

EVAPORATION
0534 1051 1056 1057 1062 1179 1704 2892 2893 2894
2897 3523 3538 4209 4213 5485 6197 6674 6675 6678
7286 7437

FILM COOLING
1072 6675 7281 7284

MASS TRANSFER •CONTINUED•

SWEAT COOLING
0408 0409 1038 1052 1053 1059 2322 2333 2895 2896
4212 6638 6678 7283

•SEE ALSO••• ABLATION -- DIFFUSION -- DRYING -- MIXING

MATERIAL TEST TECHNIQUES
0819 1418 1430 1434 2098 2678 3295 3338 3974 3980
4001 4630 6460 6462 7061 7063

BENDING
0223 6445

COMPRESSION
1429 3998

HARDNESS
4001 7062

HIGH TEMPERATURE
0210 0297 1137 1767 5326

MACHINES
3201 3333 7060

NONDESTRUCTIVE
0814 0817 0818 1435 2451 2669 2677 2680 2681 3332
4005 4354 4632 6451 7040

NOTCH
0231 3978 4001 5843

SHEAR
2689

TENSION
0227 1429 2102 3337 3342 3343 3843 3979 5860

TORSION
0222 1001 4002 4631 5867

•SEE ALSO••• CORROSION -- CREEP -- FATIGUE -- IMPACT, TESTS OF MATERIALS -- X-RAY TECHNIQUES

MATERIALS, PROPERTIES••• •SEE• UNDER SPECIFIC MATERIALS OR PROPERTIES

MATHEMATICAL METHODS••• •SEE• UNDER MODIFIER

MATRIX METHODS
0611 1001 1144 1226 1886 2012 2126 2127 2128 2607
3121 3126 3363 4020 4283 4424 4441 4651 5658 5660
5661 5673 5802 5893 6239 6241 6243 6390 6417 6984
6999

DETERMINANTS
6240

EIGENVALUES
0017 0020 0612 0615 1227 3141 6375 6384

INVERSION
3125 6844

LINEAR EQUATIONS
0018 1238 3754 5163 6336 6844

LINEAR PROGRAMMING
5665

•SEE ALSO••• NUMERICAL ANALYSIS -- VECTOR AND TENSOR METHODS

MEASUREMENT METHODS••• •SEE• UNDER MODIFIER

MECHANISMS••• •SEE• MACHINE DESIGN

MELTING
1518 1519 3515 4213 5476 6090 6092 6467 6509 7287

MEMBRANES
0703 5201 6375 6376

•SEE ALSO••• VIBRATION, MEMBRANES

MERCURY
4230 6770

METALLURGY
0207 1058 1152 1156 1216 2833 3975 5459 6464 7252

POWDER
0793 3357

METEOROLOGY
1201 1202 1714 2469 4312

APPLIED
1196 1202 1845 1847

ATMOSPHERE
1201 2457 2469 3022 3091 3093 3094 3095 3096 3097
3098 3705 3706 3707 3708 3709 4385 4386 4387 4388
4389 4390 5020 5021 5022 5023 5024 5025 5638 5639
6218 6219 6220 6221 6222 6796 6797 6798 6799 6800
6801 6802 6803 6804 6805 6808 6809 6810

CLIMATOLOGY
1202 6805 6809

CLOUD PHYSICS
0407 1850 6222

DYNAMICS, CIRCULATION AND VORTICITY
1198 3097 4385 4386 6219 6221 6796 6797 6799

DYNAMICS, EQUATIONS OF MOTION
1849 3086 3091 3706 5020 6796

DYNAMICS, KINEMATICS
0573 3087 3094 3096 3098 4387 6796

DYNAMICS, NUMERICAL METHODS
0572 1195 1849 3706 3708 4385 5023 5638 6218 6219
6220 6221 6799 6808

DYNAMICS, PERTURBATION THEORY
3089 3093 3708 5020 6220 6797 6800 6801

DYNAMICS, PRESSURE CHANGE MECHANISMS
3094 4389 6804

GENERAL CIRCULATION
3091 3097 6796

HEAT TRANSFER
0570 1850 6803 6804

MEASUREMENTS
1194 1195 1196 1199 1846 2469 2474 3707 5639

MICROMETEOROLOGY
0570 1847 1848 2474 3086 3088 3090 3092 3705 3709
4388 5022 6802 6803

PHYSICAL
1194 1200 1201 1845 1846 1850 4390 6801

SYNOPTIC, ANALYSIS AND FORECASTING
0572 0573 1195 1202 1849 2473 3087 3094 3095 3096
3098 4386 4387 5022 5023 5024 5025 5638 6218 6219
6220 6221 6796 6798 6805 6808 6809

THERMODYNAMICS
6804

TURBULENCE
0336 0570 1196 1847 2247 2249 2472 2474 2804 3088
3090 3092 3707 4105 4388 4765 4780 7191

UPPER ATMOSPHERE
1194 1199 1732 1846 3022 4390 5639 6810

METEOROLOGY •CONTINUED•

WIND PRESSURE
1196 2255 2414 4779 4780 5021 7191

•SEE ALSO•--- ASTROPHYSICS -- DIFFUSION, ATMOSPHERIC -- HYDROLOGY -- ICING -- OCEANOGRAPHY

METHOD OF CHARACTERISTICS
0309 0574 0892 1099 2213 2260 2735 2826 3429 3430 3465 4089 4782 4783 5671 5946 5949 5988 6378 6589 6848 7125

MICROMERITICS
1177 1178 1179 1180 1181 1182 1183 1821 1822 1823 1824 1825 1826 2281 2454 2456 2733 3044 3046 3047 3049 3055 3675 3676 3677 3678 3679 3680 4335 4999 5610 5611 5612 5613 5614 5615 5616 5617 5618 5619 5620 6194 6195 6196 6197 6198 6199 6200 6201 6777 7095 7426 7427 7428 7429 7430 7431 7432 7433 7434 7435 7436 7437

•SEE ALSO•--- DROPS -- DUST, TRANSPORT -- PARTICLES -- SEDIMENTATION -- SEDIMENT TRANSPORT SPRAYS

MILLING
1409 5612 6439

MISSILES
0335 0501 0511 0932 0985 0988 1146 1709 1801 2501 2932 2998 3020 3714 4567 4936 4959 4962 4964 4989 5084 5364 5586 5590 5592 5993 5994 6493 6494 6495 6741 6750 6755 6773 6870 6909 7120 7190 7312 7337

•SEE ALSO•--- ROCKETS -- SPACE VEHICLES -- TRAJECTORIES

MIXING
4215 5614 5932 7147 7288

LAMINAR
2947

SOLIDS
6109 6110

TURBULENT
1593 1596 2235 3458 3702 6652

•SEE ALSO•--- MASS TRANSFER

MIXTURES
2776

GAS
0898 0976 2754 4090 4172

SOLIDS
6194

MODEL STUDIES
0255 0805 1193 1198 1424 1842 2470 2647 2838 3376 3556 4129 4285 4625 5234 5345 6113 6215 6216

FLUID MECHANICS
0345 0354 0848 0849 0853 0855 0857 0858 1503 2279 2466 2477 2824 2919 3484 3694 3695 3969 4043 4379 5276 5351 5358 5359 5447 5916 5925 6019 6107 6782 6787 7094

HEAT TRANSFER
0402 3554 4849 5418 5493 5503 6113 7094 7277

SOLID MECHANICS
0099 2088 2089 2124 2617 4396 4548 4570 5310 5859 7012

•SEE ALSO•--- MARINE ENGINEERING, SHIP MODEL EXPERIMENTS -- STRUCTURES, MODELS

MOLDING--- •SEE• CASTING

MOLYBDENUM AND MOLYBDENUM ALLOYS
0831 2682 5286 5287

MULTIPHASE FLOW
0870 1055 1712 2741 2754 3507 3675 3679 4713 5357 5358 5935 5937 6198 7128 7408

N

NAVAL ARCHITECTURE--- •SEE• MARINE ENGINEERING

NAVIGATION
1789 1927 2432 4481 4695

NICKEL
0820 0831 2682 3356 5158 5288 5728

NITROGEN
4328

NOISE
2446 3041 3662 3668 4356 4358 5601 6192 6989 7422

ABATEMENT
1173 3041 4155 4359 5602

ARCHITECTURAL ASPECTS
3041 4359 4996

BOUNDARY LAYER
4107 5417 5979 5980

CAVITATION
1819 3672

ENGINES
1167 1169 1170 1172 1173 1641 3035 6738

GENERATION
1167 1170 1171 1174 1175 1820 3034 4349 4356 5602 7417

RANDOM
3668 3961

NOMOGRAMS
0419 2647 3136 3140 3762 5077

NONDESTRUCTIVE TESTING OF MATERIALS--- •SEE• MATERIAL TEST TECHNIQUES, NONDESTRUCTIVE

NON-NEWTONIAN FLOW
0844 0845 1027 1498 1499 1500 2151 2152 2711 2714 2791 3386 4038 4039 4067 4679 4682 5330 5331 5332 5334 5614 5911 5912 5913 6510 7083 7433

NOTCH SENSITIVITY
0815 0823 0829 1323 1440 2082 2664 3846 3980 5844 5852 6469

NOTCH TEST--- •SEE• MATERIAL TEST TECHNIQUES, NOTCH

NOZZLES
0908 0971 0972 1007 1151 1584 1634 2917 4041 7141 7408

COMPRESSIBLE FLOW
0315 0329 0909 1004 1565 1715 2184 2187 2194 2210 2211 2293 2294 2753 2770 2782 2919 3423 3568 3610 3651 4042 4081 4087 4089 4091 4718 4726 4739 4744 4745 4748 5373 5398 5399 5400 5402 5530 6118 6130 6559 6560 6631 6688 6702 6765 7116 7119 7150 7151 7293

INCOMPRESSIBLE FLOW
0315 2173 3052 3056 4071 4719 6534 7437

•SEE ALSO•--- FLOW MEASUREMENT

NUCLEAR PROPULSION--- *SEE* PROPULSION, NUCLEAR

NUCLEAR REACTORS
0629 2434 4652 6684 7048

SEE ALSO--- HEAT EXCHANGERS, NUCLEAR REACTORS

NUMERICAL ANALYSIS
0033 1130 1186 1886 2412 4012 4074 4096 4123 4337
5009 5302 5667 5882 6484 6485 6581 6807 6863 7064

DIFFERENTIATION
0001 0018 3759

HARMONIC ANALYSIS
7438

INTEGRATION
0001 0018 0286 0852 1140 1157 1230 1239 1874 4442
4443 5069 5072 5584 6172 6322

INTERPOLATION
0018 1239 3121 3138 3139 3758 3759 3761 5669 5672
6861

ITERATION
0017 0020 0925 1233 1325 3200 4089 5168 5915 6844

PERTURBATION METHOD
0292 4050 4062 4706 5367 5941 6548 6551 7090

RELAXATION METHOD
0667 0783 2492 2697 3192 3891 5073 5307 6139 6862

SEE ALSO--- METHOD OF CHARACTERISTICS

O

OCEAN WAVES--- *SEE* WAVE MOTION, OCEAN

OCEANOGRAPHY
1842 1843 3085 3698 3699 3700 3701 3702 3703 3704
4382 4384 5015 6217 6793 6794 6795

SEE ALSO--- CURRENTS -- HYDROLOGY -- METEOROLOGY
SEISMOLOGY -- TIDES -- WAVE MOTION, OCEAN

OPEN CHANNELS--- *SEE* CHANNELS

OPERATIONAL METHODS
0075 0292 1191 1644 1882 1888 3145 3752 4433 4435
4436 5058 5064 5065 6299 7439

OPERATIONS RESEARCH
0021 0618 1240 1884 1890 3133 3757 4434 5066 5068
5591 5665 6856

SEE ALSO--- GAME THEORY -- LINEAR PROGRAMMING --
QUEUE THEORY

OPTICAL TECHNIQUES
0283 0328 0861 0977 0990 0991 1198 1649 1651 3531
4077 4161 4163 4172 4185 4331 4865 5439 5452 5477
5478 6071 6078 6096 6100 6199 6621 6669 7212 7215
7243 7269

HIGH SPEED PHOTOGRAPHIC
1011 1177 1744 3493 4162 4171 5618 5819 6200 6690
6696 7309

INTERFEROMETRIC
0979 1649 3492 4803

SHADOWGRAPHIC
2744 2745 4806

SCHLIEREN
1650 3425 3492 5507

OPTICAL TECHNIQUES *CONTINUED*

SEE ALSO--- PHOTOELASTICITY

ORBITS
0504 1140 1141 1142 1144 1149 1784 1794 1796 2407
2415 2416 2419 2421 2433 2994 2997 2999 3013 3633
3647 4126 4312 4313 4314 4315 4317 4318 4319 4320
4323 4324 4326 4328 4329 4334 4336 4770 4951 4953
4958 4965 4966 5568 5570 5576 5578 5595 6757 6758
6760 7382 7384

CIRCUMLUNAR
3635 4980 5571 5573 6168 7380

CISLUNAR
2409 3632 3635 4974 6759 7380 7385

INTERPLANETARY
1787 1791 3000 3644 5083 5106 7392

NEAR EARTH
0055 1143 1148 1157 1785 1788 1792 1799 2408 2413
2420 2436 2811 2987 2996 3008 3010 3011 3012 3632
3637 3639 3640 3641 3645 3649 3650 4331 4337 4960
4963 4970 5083 5569 5583 5594 6165 6170 6173 6750
6754 6761 6769 7381 7387 7388 7389 7391 7393 7394
7397 7398 7399 7400 7405

SOLAR
0034 3009 3648 5575

ORIFICES--- *SEE* FLOW MEASUREMENT, ORIFICES

OSCILLATING AIRFOIL AND WING--- *SEE* AIRFOIL AND
WING, OSCILLATING

P

PARACHUTES
0501 1782 2838 4949 4950 7221 7378

PARTIAL DIFFERENTIAL EQUATIONS--- *SEE*
DIFFERENTIAL EQUATIONS, PARTIAL

PARTICLES
0407 1033 1712 1719 2870 2887 3044 3677 4844 6069
6679

DYNAMICS
1177 2869 3008 3009 3053 3675 3676 4258 5620 7427
7436

MEASUREMENTS
1821 2454 2457 3046 3055 5610 5611 6771 7428

PHYSICAL PROPERTIES
6771

SEE ALSO--- DROPS -- DUST, TRANSPORT --
GRANULAR MEDIA -- SPRAYS

PAVEMENTS--- *SEE* HIGHWAY AND RUNWAY CONSTRUCTION

PERFORMANCE
4323 4332 4333

AIRPLANES
0497 0941 2812 2838 2982 4321 4322 5990

MISSILE
0502 1145 2811 3007 4959 7396

VEHICLES
0500 2987 2990 2995 3001

PERMAFROST
1398 2059

PERMEABILITY OF SOILS--- •SEE• SOIL MECHANICS, PERMEABILITY

PETROLEUM DEPOSITS--- •SEE• RESERVOIR ENGINEERING

PHASE CHANGES
1066 2889 3507 3540 4191 6037 6092 7247

PHOTOELASTICITY
0076 0077 0213 0214 0215 0216 0218 0801 0803 0804
0808 2090 2091 2092 2093 2094 2095 2096 2097 2101
2124 2665 2666 2667 3323 3325 3327 3329 3992 3994
3995 3996 3997 5267 5269 5270 5272 5857 5858 5859
5865 6455 6456 6457 6458 7009 7049 7050 7053 7054
7055 7058

DYNAMIC
2644 5835 6416 7051 7052

MATERIALS
1117 3196 6966

THREE DIMENSIONAL
3324 3326 5268

PHOTOGRAPHY
0220 2288

HIGH-SPEED
1744 7213

PHOTONIC PROPULSION--- •SEE• PROPULSION, PHOTONIC

PHOTOPLASTICITY
2567 4626

MATERIALS
1972

PHYSICS
1003 1667 1783 2317 2937 3022 3539 3576 3746 4173
4892 5053 5658 5669 6045 6237 7229 7244

PILES
0247 0782 0783 0784 5775 6431 6432 6489 7023 7024

PIPE FLOW
0279 0530 1027 1540 1894 2185 2188 2718 2739 2832
2875 3402 3421 3458 3465 4048 4194 4197 4724 4789
4801 4840 5420 5931 5934 6094 7087 7260 7288

CAPILLARY
1648 2835 3048 3389

EXPERIMENTAL RESULTS
0272 0274 0522 1498 1500 2155 2739 2741 3048 3056
3404 5335 5341 6200 7153 7167

LAMINAR
0972 1498 1500 2321 2369 2370 3404 4065 4848 5353
5365 5463 5539 5938 6526 6530 6658 7093

NONCIRCULAR PIPE
1497 1538 2152 2154 3404 4043 4061 4065 4679 4688
5419

NON-STEADY
1028 2738 2827 3411 4782 5366 5942 6002 6003 6717
7153

POROUS WALLS
2711

ROUGHNESS AND WALL SHEAR
2155 2737 4682 4691 5914 7092 7097

TRANSITIONAL
2155 3447 4092 4103 7167

TURBULENT
0522 1500 1651 1690 2155 2217 2231 2232 2326 3388

TURBULENT •CONTINUED•
3404 3453 3676 4061 4845 5917 5937 5938 5940 5987
6531 6638 6646 6648 7092 7093 7097 7098 7160 7171

TWO PHASE
1030 1055 2325 2455 3047 3048 3049 3056 3387 3408
3409 3493 4999 5358 5481 5615 5616 5620 5935 6198
6200 6201 6670 6673

PIPES AND TUBES
0079 0259 0260 0729 1317 2079 2096 3841 5311 5730
5888 5890 7061

UNDER PRESSURE
0693 0694 0730 0732 1122 1343 1344 1444 1522 1968
1992 1993 2552 2562 2574 2657 3214 3215 3247 3903
3905 3906 4500 5154 5309 5766 5767 6243 6306 6307
6937 6955 6960

•SEE ALSO•--- BUCKLING, PIPES AND TUBES UNDER PRESSURE

PIPING SYSTEMS
0259 0260 2123 2648 4040 4306 5311 5888 5915 5916

PLANING SURFACES
6224

•SEE ALSO•--- HYDROFOILS

PLASTIC WAVES--- •SEE• WAVE MOTION, PLASTIC

PLASTICITY
0686 0687 0810 1449 2495 2554 3744 3747 3832 3975
5052 5148 6287 6303 7035 7061

MATHEMATICAL THEORY
0101 0102 0609 0678 0686 0687 0688 1967 1969 1971
2554 2557 2558 2559 2564 2565 3211 3213 3632 3847
4502 4503 4505 4510 4519 5151 5153 5740 5742 6303
6304 6310 6318

MATHEMATICAL THEORY, THREE DIMENSIONAL
0687 1318 2565 3213 3846 4510 4518 5154 5734 6304
6308 6312 6313 6316 7030

MATHEMATICAL THEORY, TWO DIMENSIONAL
0096 0687 0687 0789 1312 1316 1318 1319 1969 2561
2562 3215 4507 5150 5737 5738 5835 6305 6306 6307
6308

MEASUREMENTS
0095 0099 0104 0690 1316 1317 1321 1323 1404 1444
2561 2686 2688 3210 3216 3298 3850 3852 3858 3978
4158 4502 4519 5158 5159 5255 5279 5284 5733 5735
5745 5833 5835 6311 6319

PHYSICAL THEORY
0103 0687 0690 0693 0790 0792 0824 1312 1403 2069
2070 2654 2655 3212 3214 3297 3299 3302 3744 3767
3850 3853 3854 3855 3856 4611 4614 4615 4616 5252
5253 5256 5736 5742 5743 5745 5832 6310 6311 6434
7027

•SEE ALSO•--- BEAMS, PLASTIC DEFORMATION -- BUCKLING, PLASTIC -- CREEP -- CUTTING PROCESSES DISLOCATION THEORY -- DRAWING -- DUCTILITY -- ELASTOPLASTICITY -- ENERGY METHODS -- EXTRUDING PLATES, PLASTIC DEFORMATION -- ROLLING -- SHELLS, PLASTIC DEFORMATION -- SOIL MECHANICS -- STRAIN HARDENING -- STRAIN AND STRESS, RESIDUAL -- VISCOELASTICITY -- VISCOPLASTICITY

PLASTICS
0478 1424 1772 2676 3322 3339 3346 3978 4645 4647
5292

REINFORCED
0233 0234 0235 0236 0261 1131 1447 1522 2677 3346
3347 5291 5903 6473 6476 6492

PLATES
0208 0614 1366 1892 2092 2093 2116 2492 2658 2699
2704 4358 4662 5203 5204 5205 5211 5212 5213 5214
5215 5216 5217 5224 5225 5233 5886 6384 6385 6387
6409 6420 6990 6991 6992 7076

ANISOTROPIC
0131 0132 0704 0718 1335 1989 1998 2002 4554 5177
5258 6841

BENDING
0071 0115 0139 0674 0683 0705 0706 0707 0708 0712
0736 1333 1334 1339 1351 1366 1985 1988 2129 2575
2580 2700 3251 3252 3314 3827 3884 3885 3910 3912
3913 4547 5181 5312 5756 5757 6331 6356

BENDING, ANISOTROPIC
6354

BENDING, ELASTIC
0070 0116 0117 0118 0121 0709 0710 0722 0906 1293
1334 1336 1987 2000 2547 2581 2584 3222 3223 3225
3226 3227 3228 3229 3230 3231 4532 5770 6329 6330
6949 7464

BENDING, PLASTIC
0177 1986 5177 5758

BENDING, STIFFENED
3883 4549

CIRCULAR
0098 0681 0706 0711 1986 2583 3225 3227 3232 3883
3887 5167 5181 6337 6950

COMBINED LOADS
1336 2588 3766 4431 5299 6843

FINITE DEFORMATIONS
0115 0706 0734 0735 2586 3224 3232 3886 4491 4553
5755 6344

NONHOMOGENEOUS
0668 2587 5179

PLASTIC DEFORMATION
0098 0100 0687 0691 0789 1986 2554 2582 3882 4504
4532 5155 5758 5833 6316

STIFFENED
0071 0131 3186 3225 3228 3233 4018 4548 4550 5175
6327

TENSION
5176 5179 6354

THICK
0119 0133 2001 5769

WEAKENED
0206 0674 0710 1287 1337 2001 3231 3234 4533 5176
5759 6351 6951

•SEE ALSO•--- BUCKLING, PLATES -- DISKS -- ELASTIC FOUNDATIONS, PLATES -- ENERGY METHODS -- FATIGUE, PLATES -- IMPACT, PLATES -- NUMERICAL ANALYSIS, RELAXATION METHODS -- PANELS -- SANDWICH CONSTRUCTION -- VIBRATION, PLATES

POLISHING
7451

POLLUTION

AIR
0536 1825 1847 2457 6655

POLYMERS
2111 3339 3343 3346 3574 3993 3994 4642 4643 4644
4645 5292 5293 5724 5725 6070 6474 6931 6934 7033

POLYMERS •CONTINUED•

•SEE ALSO•--- PLASTICS

POROUS MEDIA
0551 1025 1692 1711 1895 2893 3058 3060 3064 3079
3080 3099 3389 3516 3687 3690 3694 4220 4364 4367
4368 5007 5009 5621 5622 5623 5625 6202 6210 6674
6787 7238 7286

ANISOTROPIC
0549 1397 3062 3413 5006 5010 5630 6212 6782 6785

CHARACTERISTICS
3045 4361 5000 5633 6211

COMPRESSIBLE FLUID FLOW
0531 0543 1188 1711 1833 2246 3072 3357 3685 3691
4733 5003 5624 5629 5631 6207 6780 6781

ELASTICITY
4374 5002 7440 7446

FLUIDIZED BEDS
0531 4844 6105 6106 6107 6108 6109 6110 6111 6112
7290 7430

INCOMPRESSIBLE FLUID FLOW
0556 1181 1185 1828 2463 3063 4220 4362 4363 4365
4371 4692 5008 5421 7442 7443

TWO PHASE FLUID FLOW
0542 0546 0552 1184 1189 1829 1830 2462 2466 3066
3067 3071 3682 3692 3693 3695 4369 4373 4376 4377
5626 5627 5628 6783 6784 6785 7438 7440 7446

•SEE ALSO•--- FILTRATION -- HYDROLOGY, GROUNDWATER SEEPAGE -- SOIL MECHANICS, PERMEABILITY

POTENTIAL THEORY
0004 2782 2783 2996 3005 3008 3752 4427 5062 6238
6849

FLUID FLOW
0276 0277 0279 0871 0957 1525 1552 1559 1600 1852
2170 2173 2733 2734 2735 2757 3399 3476 4050 4114
4428 4718 4732 5372 5428 5676 5930 6007 6226 6610
7102

FLUID FLOW, AXISYMMETRIC
2171 2732 2734 2761 3753 4052 5008 5061 6526 6542
6783 7099 7100 7101 7203

FLUID FLOW, PLANE
0862 0867 0958 1524 2734 4051 4703

FLUID FLOW, WITH SINGULARITIES
0958 2169 4052 6540

HEAT TRANSFER
4428

POWER PLANTS
0441 3023 3564 4825 6705

HYDROELECTRIC
0851 0975 1503 1645 2830 3396 3484 4787 4788 5348

NUCLEAR
0459

PRECIPITATION--- •SEE• HYDROLOGY, RAINFALL

PRESSURE MEASUREMENT
0863 0965 1599 1658 2190 2285 2292 2296 2743 2830
2831 2835 3495 3998 4073 4158 4380 5361 7104

GAGES
1643 2452 2950 4068 4798

TRANSDUCERS
0356 3482 3490 5438

PRESSURE MEASUREMENT •CONTINUED•

•SEE ALSO•--- FLOW MEASUREMENT -- MANOMETERS

PRESSURE VESSELS
0212 0257 0258 0821 1481 3249 3326 5180 5275 5760
5768 5887 5888 6306 6340 6950

•SEE ALSO•--- BOILERS -- PIPES AND TUBES, UNDER PRESSURE

PRESTRESSED CONCRETE
0696 1455 1456 1459 1474 2079 2612 2695 3817 3832
3834 3916 4007 4022 4623 5877 7057 7066 7067 7068

PRESTRESSED STRUCTURES--- •SEE• STRUCTURES, PRESTRESSED

PROBABILITY THEORY
0358 3756 4059 4437 4775 5066 5528 6764 7032

•SEE ALSO•--- ERROR THEORY

PROCESS CONTROL--- •SEE• AUTOMATIC CONTROL, PROCESSES AND SYSTEMS

PROJECTILES
0502 1689 2998 4987

•SEE ALSO•--- MISSILES -- TRAJECTORIES

PROPAGATION OF CRACKS--- •SEE• CRACK PROPAGATION

PROPELLANTS
0511 1090 1720 2077 2912 3024 3026 3556 3573 5496
5500 5501 5509 6115 6123 6455 6456 6690 6697 6701
7294 7296 7304 7307

FUELS
6114

OXIDIZERS
3110 3547 4886

PERFORMANCE
0687 1080 1089 2926 2927 2928 2929 2931 3570 4226
4228 4873 4874 4875 4876 4880 4885 6130 6171 6695
6700 6842 7311

•SEE ALSO•--- HYDROCARBONS

PROPELLERS
0968 4795 6019

AIRPLANE
0877 1138 2280 2815 2984 2986 2993 4116 4796 4797
6609

MARINE
0230 0969 1211 1212 1857 2476 2477 2481 3028 3487
3725 3726 4052 4157 4392 4793 4794 5026 5029 5643
5644 5645 6014 6015 6606 6812 6814 6817 6820 7422

•SEE ALSO•--- VIBRATION, PROPELLERS

PROPERTIES OF MATERIALS--- •SEE• UNDER MODIFIER

PROPULSION
0438 0441 0450 0463 0465 1091 1145 1784 2918 2932
2937 3001 3003 3021 3025 3028 3569 3570 3636 4226
4232 4275 4312 4316 4323 4330 4336 4886 4889 5512
6131 6132 6134 6135 6136 6171 6703 6707 6724 6725
7334 7379

IONIC
0439 0440 1093 2384 2938 2949 2954 2971 3005 3015
3575 3596 4230 4259 4887 4888 4890 4891 4892 5513
7313 7314 7403 7405

JETS
0298 0299 0457 1088 1546 1715 2362 3651 4121 4773
5429 6745

PROPULSION •CONTINUED•

NUCLEAR
0629 1738 2434 2934 2935 2936 3021 3574 3652 3653
4231 4232 6133 6666 6704 7403

PHOTONIC
2328 3015 3648 4232 7393

PULSEJETS
1717

PUMPS
0963 1642 3480 6016 6559 7005 7204 7206

AXIAL
0353 0964 1639 2283 5346 6012 6605

CENTRIFUGAL
0348 0349 0350 0351 0352 2283 3479 4148 4149 4156
5929 6010 6018 7208 7435

POSITIVE DISPLACEMENT
0967 3483

•SEE ALSO•--- EJECTORS

Q

QUEUE THEORY
0015 3756 6858

R

RADIATION DAMAGE
1045 4514 5741

RADIATION, HEAT--- •SEE• HEAT TRANSFER, RADIATION

RADIOACTIVE ISOTOPES
6436

RAILS
3970 5905

RAILWAY CONSTRUCTION
1483

RAINDROPS--- •SEE• DROPS

RAINFALL--- •SEE• HYDROLOGY, RAINFALL

RAMJETS
0315 1088 1715 2212 2362 3025

RAREFIED GASES
0898 0905 0921 0982 1562 1564 1659 2188 2191 2193
2194 2208 2209 2775 2777 2779 2780 2781 2797 3433
4088 4093 4177 4714 4715 4740 4741 4742 5369 5386
5395 5396 5397 5444 5956 5958 5959 6546 6557 6558
7142 7145 7463

REACTION KINETICS--- •SEE• COMBUSTION, REACTION KINETICS

REDUNDANT STRUCTURES--- •SEE• STRUCTURES, STATICALLY INDETERMINATE

REFLECTION--- •SEE• INTERFACE PHENOMENA

REFRACTION--- •SEE• INTERFACE PHENOMENA

REFRACTORIES
0457 1132 2675 3989 5012

•SEE ALSO•--- FURNACES

REFRIGERATION, AIRCONDITIONING
0370 1016 2304 2324 2842 2843 2844 2845 4221 5458 7249

•SEE ALSO••• HEAT PUMPS

REGENERATORS
3543 4175 4176 4218 4861 5491

•SEE ALSO••• AIR PREHEATERS -- HEAT EXCHANGERS

REINFORCED CONCRETE
0833 0834 1412 1453 3315 5328 5876

CONSTRUCTIONS
0221 0242 0250 0253 3377 5142 5297 5298 6968 7073

CRACKING
2551

DESIGN
0221 0242 1353 1469 2606 3358 3872 3876 4536 5184 5294 5296 5323 5871 5872 5873 6968

PLASTIC FLOW
0695 2563 3841 5155 6302

SHRINKAGE
5142 6302

STRUCTURAL ANALYSIS METHODS
0242 0695 2551 2694 3228 3832 4008 5875

TESTS AND TESTING
0221 2563 3871 3895 5295 5323 5874 6302

THERMAL STRESSES
2981

•SEE ALSO••• ARCHES AND VAULTS -- CONCRETE AND MASONRY -- FATIGUE -- STRUCTURES -- STRAIN AND STRESS -- SHELLS

RELAXATION METHODS••• •SEE• NUMERICAL ANALYSIS, RELAXATION METHODS

RESERVOIR ENGINEERING
0006 0526 0542 0546 0548 0550 0551 0552 0554 1186 1189 1190 1829 1834 2166 2460 2464 2466 3057 3058 3061 3062 3065 3066 3067 3070 3071 3073 3074 3078 3099 3685 3687 3693 3695 4369 4372 4373 4376 4377 4378 5001 5005 5621 5622 5628 5630 5631 5632 6206 6208 6595 6599 6779 6782 6783 6784 6786 7444 7446 7447

•SEE ALSO••• FILTRATION -- GEOPHYSICAL EXPLORATION -- POROUS MEDIA -- SEEPAGE -- WELLS

RESIDUAL STRESS AND STRAIN••• •SEE• STRAIN AND STRESS, RESIDUAL

RESONANCE••• •SEE• VIBRATION, RESONANCE AND STABILITY

RHEOLOGY
1497 2149 2709 2710 4050 4802 5333 5614 5907

COLLOIDS AND SUSPENSIONS
0523 3386 3387 3830 4682 5337 5910

MEASUREMENTS
0273 0275 0474 0523 1498 1500 2150 2151 2153 2712 4039 4681 4682 4683 4802 5334 5335 5908 5910 6509

•SEE ALSO••• NON-NEWTONIAN FLOW -- PLASTICITY -- VISCOELASTICITY -- VISCOPLASTICITY

RINGS••• •SEE• ARCHES AND VAULTS

RIVERS••• •SEE• STREAMS, NATURAL

ROAD BEDS••• •SEE• HIGHWAY AND RUNWAY CONSTRUCTION

ROCK
1190 1427 1836 1837 1838 2055 2459 2672 3516 3852 4380 4863 5010 5011 5014 5842 5864 7026 7428 7447

ROCKETS
0436 0439 0440 0932 1072 1140 1145 1174 1795 2210 2782 2912 2931 2932 2933 2934 2935 3034 3035 3266 3557 3558 3570 3571 3572 3574 4228 4230 4285 4316 4567 4880 4885 4887 4888 4891 4959 4964 4988 6114 6180 6193 6396 6842 7003 7058 7312 7315 7379

CONTROL
0431 1616 2252 2425 2426 2806 3567 4974 6127

LIQUID FUEL
0433 1090 2927 2928 2929 3018 4873 4876 6128 6129 7141 7296 7408

NOZZLES
1546 1686 2926 2927 2928 3567 3568 5398 5512 6666 6688 6702 7116 7141 7293 7312

SOLID FUEL
0421 0429 0687 1077 1080 1089 1151 2077 2450 3006 3026 3560 3572 4327 4874 4875 5510 6115 6127 6695 6700 7294 7304 7307 7311

•SEE ALSO••• MISSILES -- SPACE VEHICLES

RODS••• •SEE• BEAMS

ROLLING
0196 0197 0790 0791 0824 0825 1409 1973 2069 2652 3295 3298 3299 3300 4612 4613 5254 5255 6434 7027

ROPES••• •SEE• CABLES AND FLEXIBLE FILAMENTS

ROTATING DISKS
2775

FLOW BETWEEN
2282 5331 5332 6020 7207

STRESSES
0091 0491 1955 2561 3235 5156 5722 5771 5772 6305 6353

•SEE ALSO••• VIBRATION, ROTATING DISKS

ROTATIONAL FLOW
1198 1505 1725 1726 2181 2208 2456 2739 3401 3406 4053 4069 4706 4708 4709 4711 4713 4731 4796 5356 5361 5929 5933 6199 6528 7095

•SEE ALSO••• ELASTOMERS

RUBBER
0582 0666 1217 1390 1433 1448 1938 2113 3881 4646 5036 5292 5337 6934

RUDDERS
0862 2481

RUNOFF••• •SEE• HYDROLOGY, RUNOFF

RUNWAYS••• •SEE• HIGHWAY AND RUNWAY CONSTRUCTION

S

SAMPLING CONTROL
7022

SAMPLING OF DATA
0016 0811 1200 4331 4332

SAND
0527 1178 1395 3047 3516 5824 5829 6424 6777 7026
7444

SANDWICH CONSTRUCTION
0106 0233 0245 0271 0668 0812 1309 1350 2699 3848
3908 3909 4009 4307 4552 5290 5557 6474 6969

•SEE ALSO••--- BUCKLING, SANDWICH CONSTRUCTION

SATELLITES
1040 1696 1701 2243 2328 2424 2427 2428 2429 2431
3046 3534 3573 4328 4850 4969 4973 5119 5597 6667
6806 6907

DESIGN
0506 1146 1153 6763

ORBITS
0504 0656 1148 1157 1199 1793 1799 1846 2413 2417
2420 2421 2436 2532 2996 3008 3010 3011 3632 3637
3639 3640 3641 3642 3643 3645 3650 3802 3804 4313
4325 4329 4331 4332 4334 4336 4953 4955 4956 4960
4965 4966 5013 5570 5583 5593 5594 5595 6750 6754
6758 6761 6766 6769 7387 7388 7389 7391 7394 7395
7397 7398 7399 7400

TRACKING
3008 3010 3011 3632 3642 3801 3802

•SEE ALSO••--- ASTRONAUTICS -- ORBITS -- TRAJECTORIES -- SPACE VEHICLES

SCALE EFFECT
1958 3205 4151 4157 4392 5644 6010

SCHLIEREN METHOD--- •SEE• OPTICAL TECHNIQUES

SEALS
0596 3740 6840

SEAPLANES AND FLYING BOATS
3724

SECONDARY FLOW
3050

COMPRESSIBLE
3423 7202

INCOMPRESSIBLE
2453 2739 3049 4061 4068 6195

SEDIMENT TRANSPORT
0522 0524 0527 0528 0529 0530 0848 0849 0955 1182
1183 1193 1197 1842 2162 2163 2264 2452 2453 2455
3047 3049 3050 3051 3056 3676 3680 4383 4999 5616
5620 6195 6196 6200 6201 6214 6777 7026 7434

SEDIMENTATION
0192 0525 0547 0853 1193 2454 3051 3085 4383 5345
6196 6215 7428 7429

SEEPAGE
0540 0544 0557 1185 1187 1827 1831 1832 1835 2067
2160 2458 2459 2461 2465 2467 2651 3058 3062 3063
3069 3079 3080 3099 3682 3684 3685 3688 3689 4692
5004 5347 5437 5622 5623 5632 5827 6203 6204 6205
6427 7439 7441 7443 7445 7448

•SEE ALSO••--- WELLS

SEISMOLOGY
0558 0559 0560 0561 0562 0563 0564 0565 0566 1191
1839 1840 1841 1892 2121 2470 2471 2475 3031 3081
3082 3277 3279 3468 3545 3953 3966 5235 5237 5238
5634 5635 5636 6788 6789 6790

EARTHQUAKES
0568 1464 3315 3370 3372 4381 4670 5637 6999

SEISMOLOGY •CONTINUED•

EXPLOSIONQUAKES
2471 3696 3697 3698 4338 4339

•SEE ALSO••--- GEOPHYSICAL EXPLORATION

SEMICONDUCTORS
7244

SERIES EXPANSION
0003 3121

FOURIER SERIES
1871 1872 3120 3142 3144 3715 3723 3758 4430 4431
6843 6863

SERVOMECHANISM--- •SEE• AUTOMATIC CONTROL, SERVOMECHANISMS

SETTLEMENT OF SOILS--- •SEE• SOIL MECHANICS, SEDIMENTATION

SEWERAGE

FLOW
0858 1508 2158

SHAFTS
0113 0218 0687 1425 3990 5202 5210 5218 5219 5270
6383 6400 6987 6988 7050

CRITICAL SPEEDS
5796 5797

SHAPING
2072 9903

SHEET STRINGER PANELS--- •SEE• PLATES, STIFFENED

SHELLS
0248 0614 0627 0731 1892 2130 3977 4016 4017 4578
4650 5221 5222 5309 5800 6414 6419 6993 6994 6995
6996 6997 6998 7053 7415 APRIL FEATURE ARTICLE

ANISOTROPIC
1994 2604 2605 2656 3248 5177 6355

BENDING, ARBITRARY SHAPE
0720 1346 3898 4543 5168 6341 6345

BENDING, AXIALLY SYMMETRIC SHAPE
0123 0721 1340 2597 3220 3245 3833 3889 3890 3891
3892 3894 3896 3897 3903 4534 4535 4537 4672 5169
5182 5436 6342 6348 6349 6350 7352

BENDING, STIFFENED
0713 4535

CONICAL
0726 2603 2619 3239 4536 5783 6969

CYLINDRICAL, LOCAL BENDING
2593 2600 3240 4672

CYLINDRICAL, STIFFENED
1343 1746 1996 2592 2599 2600 2601 2602 2617 3219
3244 3902 4551 4672 5880 6960 6965

CYLINDRICAL, THICK
4652 5180 5723

CYLINDRICAL, THIN
0080 0090 0129 0714 0715 0716 0717 0719 0723 1471
1984 1991 2594 2595 2617 2618 2975 3239 3893 4540
4544 4545 4578 5174 5764 5887 6309 6347 6963 6967
6978

CYLINDRICAL, WITH OPENINGS
3244 5269

SHELLS •CONTINUED•

GENERAL THEORY
0125 0714 0724 1332 1990 2579 2589 2591 2596 3176
3236 3238 3241 3766 3899 3900 3901 3904 5170 5171
5172 5178 5762 5763 6338 6346 6356 6961 6967

LARGE DEFORMATION
0128 1993 2591 2598 2603 3250 4538 6344 7061

NONHOMOGENEOUS
0130 3242

PLASTIC
0106 0687 0726 1314 1315 1347 2554 3212 3243 4504
4546 5889 6309

REVOLUTION
0257 0725 0727 0733 1348 2589 3236 3833 3848 5152
5221 5765 6337 6343 6352 6355 6954 6956 6957 6958
6993

SHALLOW
0126 0127 0130 0726 2590 2598 3242 3248 4538 4542
5169 5173 5761 6341 6345 6964 6993

SPHERICAL
0124 0127 0134 1341 1342 1347 1949 1995 1997 2125
2578 2594 3240 3848 3880 3889 3895 4580 5275 5768
6309 6348 6959 6977

STIFFENED
1454 2577

TORSION
2115 5892

•SEE ALSO•--- BUCKLING, SHELLS -- ENERGY METHODS
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1781 5901

SHIP--- •SEE• MARINE ENGINEERING

SHOCK
6419

ABSORBERS
2671 6401

DAMAGE
0508 4085

THERMAL
6161 6990 7246 7369

•SEE ALSO•--- IMPACT

SHOCK TUBES
0312 0313 0426 0428 0949 0990 0991 0992 1073 1662
1663 2297 2298 2351 2371 2767 2768 2774 2945 3498
4081 4091 4169 4170 4171 4172 4257 4759 4812 4813
4814 4878 4918 5444 5445 5976 5991 6030 6031 6632
6720 7137 7218 7228

SHOCK WAVES IN FLUIDS
0314 0898 0899 0900 0901 0902 0903 0906 0990 0991
1557 1561 1564 1629 1630 1631 1668 1714 1805 1807
2189 2193 2200 2203 2204 2205 2206 2207 2213 2239
2266 2349 2351 2357 2437 2438 2439 2764 2767 2769
2771 2772 2773 2774 2778 2783 2906 3421 3424 3430
3431 3432 3671 4077 4084 4087 4091 4341 4342 4735
4737 4738 4749 4813 4842 4877 4981 5390 5391 5392
5393 5604 5954 6178 6193 6552 6554 6556 6600 6774
7136 7140 7178 7233 7266 7410

DETACHED
0894 2199 4736 5950 6553 7138 7139

INTERACTION
1544 1558 1559 1560 2201 2202 2267 2371 2373 2385

INTERACTION •CONTINUED•
2768 2770 2914 2967 3661 5394 5526 6183 7127 7134

MEASUREMENT
0313 2203 2965 3425 4142 6179 6774

NORMAL
1147 1601 1628 2183 2748 2966 2968 3434 4248 4255
4256 4265 4266 4268 4917 4918 4919 5389 5515 5527
5533 6720 6721 6722 7137

OBLIQUE
0899 1147 1556 1600 4086 4750 5953 7329

SHOCK WAVES IN SOLIDS
0510 0687 3283 3285 4340 4986 5819 6415 6773
7017 NOVEMBER FEATURE ARTICLE

SIEVING
6194

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SIMILITUDE--- •SEE• DIMENSIONAL ANALYSIS

SIMULATION
2299 3004 6085 6634

ANALOG
0469 1618 2671 4944

•SEE ALSO•--- CRUSHING

SKIN FRICTION--- •SEE• BOUNDARY LAYER, SKIN FRICTION

SLIP FLOW--- •SEE• RAREFIED GASES

SLOPE STABILITY--- •SEE• SOIL MECHANICS, SLOPE STABILITY

SOIL MECHANICS
1187 1399 1401 2048 2049 2050 2053 2055 2065 2648
3287 3289 3291 3744 5243 5825 6422 6423

BEARING CAPACITY
0181 0190 0782 0783 1394 1395 2061 3294 5249 5824
5828 6430

CONSOLIDATION AND STABILIZATION
0191 0192 0785 0786 0787 1400 1836 2054 2056 2646
2650 3059 3290 4604 4605 4606 5245 5247 5826 6424
6425 6426 6429

DYNAMICS
0182 0188 0189 0540 1396 2056 2062 2064 2319 2649
3292 3293 3965 4396 5830 7432

MOISTURE
1185 3045 5143 5831

MULTILAYER
3690 6426

PERMEABILITY
0549 1190 2459 4370 5012 5633

PLASTICITY
0190 5823

SLOPE, STABILITY
1193 2057 2058 2066 2651 5823

SOIL PROPERTIES
0181 0188 1393 1396 1398 2059 3288 4602 4603 5143
5244 5246 5335 5821 5822 5829

TESTING METHODS
0188 0190 1402 2647 3045 3287 3966 4396 4607 4608
4609 5831

SOIL MECHANICS •CONTINUED•

•SEE ALSO•--- DAMS -- EARTH PRESSURE -- HEAT TRANSFER, SOIL -- HYDROLOGY -- PERMAFROST -- PILES -- RAILWAY CONSTRUCTION -- SAND -- SEDIMENTATION -- SEEPAGE -- TUNNELS -- WELLS

SOLAR
1095

ENERGY
1845 2327 2424 2880 2888 2937 4174 4217 4894 6661 6752 6806 7404

FURNACES
1699 7404

SOLDERING--- •SEE• BRAZING AND SOLDERING

SOLID STATE PHYSICS--- •SEE• SEMICONDUCTORS

SOOT FORMATION
5498

SOUND
0931 1809 1811 1812 1815 1817 2446 3036 3662 3664 3671 3673 4343 4344 4346 4347 4348 4349 4355 4356 4358 5606 6396 6989 7418 7419 7422

ABSORPTION
0521 1810 1814 2447 2449 3038 3040 3043 3665 3666 4351 4353 4359 4996 4998 7419 7420 7421

ATTENUATION
0521 1176 1810 1814 3037 3040 3669 4354 4996

DIFFRACTION
2447 5604 5608 6189

DISPERSION
4088

FIELDS
0519 1166 1813 2444 3667 3672 4347 4349 4355 5601 5808 6186 6187 6192 7412 7413

GENERATION
0293 0762 1164 1167 1808 1809 1811 2442 2443 2803 2961 3041 3667 3670 4343 4345 4346 4347 4349 4352 4356 4992 6187 6188 7414 7416 7417 7419

MEASUREMENTS AND INSTRUMENTS
0519 0521 1163 1165 1166 1812 2445 2449 3035 3040 3043 3665 3670 4159 4343 4350 4352 4356 4359 4998 5608 6190 7413 7414 7418 7420

PROPAGATION
0518 1044 1158 1176 1817 1818 1844 3037 3042 3043 3673 4344 4345 4351 4991 5017 5607 6193 7412

RADIATION
1808 2441 3033 3663 4344 4347 4348 4994 6185 6188 6192 7415

REFLECTION
3036 3042 4344 5603 5605 7412

SCATTERING
3039 3663 6189 6190

TRANSMISSION
0521 1176 1814 1815 2449 3038 3663 4344 4359 4991 4996 5017 6193

VELOCITY
3037 3039 3664 3665 4353 6191

WAVES
0293 0518 1044 1164 1844 2213 2440 2445 3698 4991 4997 6186 6587 6716 6719

•SEE ALSO•--- COMBUSTION, SOUND -- AEROTHERMOACOUSTICS -- INTERFACE PHENOMENA -- NOISE -- TURBULENCE -- ULTRA AND INFRASONICS

SPACE VEHICLES
0659 0985 0988 1045 1146 1150 1268 1784 1925 1928 1931 2426 2432 2517 2829 2931 2987 2995 3020 3260 3534 3634 4126 4128 4200 4326 4336 4485 4818 4856 4973 5121 5313 5586 5587 6278 6280 6282 6493 6494 6496 6498 6667 6750 6871 6890 6891 6892 6903 6910 6911 6984 7315 7379 7384

DESIGN
0932 0980 1151 1153 1252 2406 2811 2837 3006 3007 3636 3653 3655 3657 4028 4975 6168 6177 6495 7189 7401

EXTERNAL ENVIRONMENT
2243 2424 3656 4335 4567 6396 6667 6771 7270 7413

INTERNAL ENVIRONMENT
3654 3655 4144 6687 6705 7401

SPECIAL PROPULSION SYSTEMS
0441 1093 1094 1095 2406 2938 3003 3648 4231 4889 4890 4893 5513 5596 6131 6132 6133 6134 6135 6136 6171 6704 6705 6706 6707 7314

SPECIAL MATHEMATICAL FUNCTIONS
0001 0002 0022 0616 0620 0621 0622 1226 1230 1236 1871 1872 3122 3123 3131 3138 3750 3752 4127 4314 4433 4440 4441 4444 4446 5054 5058 5061 5069 5070 5071 5658 5664 5667 5668 6244 6250 6843 6849 6859 6934

SPECIFIC HEAT --- •SEE• THERMAL PROPERTIES, SPECIFIC HEAT

SPECTROSCOPY
1714 2457 3532 5477 5478 6103

SPILLWAYS--- •SEE• WEIRS, SPILLWAYS

SPIN RECOVERY--- •SEE• AIRPLANE, SPIN RECOVERY

SPOILERS--- •SEE• WINGS, SPOILERS

SPRAYS
0519 0533 0534 0535 3044 3052 3054 3678 3679 3724 4071 5617 5618 6199 7437

SPRINGS
0062 1492 2139 4030

NONLINEAR
2137 2140

•SEE ALSO•--- VIBRATION, SPRINGS

STABILITY--- •SEE• UNDER MODIFIER

STABILITY THEORY
0005 0031 0038 0623 1146 2120 2811 2821 2991 2992 2998 3780 4125 4137 4284 5668 5686 5687 6257 7190

STABILIZATION OF SOILS--- •SEE• SOIL MECHANICS, CONSOLIDATION AND STABILIZATION

STALLING
2229 2391 6017

AIRFOILS
2250 2277 3478 7201

WINGS
1656 7199

STATICALLY INDETERMINATE STRUCTURES--- •SEE• STRUCTURES, STATICALLY INDETERMINATE

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STATISTICAL MECHANICS
0192 0898 2780 2781 2839 4262 4361 4896 6137 6138

STATISTICAL THEORY
0358 0507 0620 0811 1195 1234 1452 1804 1883 1971
2827 3132 4437 4937 5067 5068 5264 5446 5610 5611
6227 6314 6798 7022

•SEE ALSO•--- DATA ANALYSIS -- ERROR THEORY -- INFORMATION THEORY -- OPERATIONS RESEARCH

STATISTICAL THERMODYNAMICS--- •SEE• THERMODYNAMICS, STATISTICAL

STEAM
1085 4180 4853 4871 6059 6079 6080 6126 6619 6685
7231 7273 7277 7278

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0365 4179

STEAM POWER PLANTS--- •SEE• POWER PLANTS, STEAM

STEEL
0199 0207 0225 1411 2145 3104 3973 3976 3985 5262
5855 7044 7045 7425

ALLOY
0826 0827 0829 0831 1440 1973 2688 3206 3350 3978
3979 4635 5279 5282 6301 6465 6466 6469

CARBON
0227 0821 0822 0823 0824 0825 0827 0828 1317 1389
1437 1438 1958 2071 2073 2107 2684 2685 3354 4508
4611 5255 5280 5281 5283 5284 6464 6467 6468

STAINLESS
0210 0229 0826 1436 2103 2104 3304 3351 5721 6475

STILLING BASIN--- •SEE• SURGE TANKS

STRAIN GAGES
0094 0216 0217 0806 0807 0809 1424 2665 3341 3999
4380 5862 5863 5864 5868

ELECTRIC
1430 2099 2290 3174 3297 3998 4629 5860 6416 6738
7223

OPTICAL
2668 7057

STRAIN HARDENING
0087 0820 1322 1404 1407 1439 1955 1956 2560 5283
5739 5836 5835 6300 6437 6935

STRAIN AND STRESS
0802 1418 1496 1898 2098 2100 2345 2656 2668 2681
3310 3341 3674 4618 4655 5274 6459 6462

CONTACT
1220 1861 4640

FINITE DEFORMATION
3178

RESIDUAL
0216 0692 1317 1320 1322 1495 2144 2560 2663 3208
3209 3858 3977 4506 4507 4508 4511 4514 4576 4613
5262 5278 7034 7044

STREAMS
0853 0854 1192 6213 6215 6791 7085

FLOOD FLOW
2823 5019 6513 6599

NATURAL
0526 0852 1516 2163 4689 5437 5919 6522

STRESS ANALYSIS--- •SEE• UNDER MODIFIER

STRESS CONCENTRATION FACTORS
0076 0077 0079 0218 0261 0669 0670 0671 0672 0674
0804 1287 1337 1352 1417 1425 1426 1942 1945 1983
1988 1989 2091 2549 2569 3180 3181 3231 3237 3813
3814 3816 3840 3846 3874 3980 4331 4533 4628 5134
5135 5176 5267 5271 5299 5713 5714 5759 5904 6420
6469 6919 6924 7049

STRESS CORROSION
0210 6452

STRESS PROPAGATION
3674 6416

ELASTOPLASTIC
0694 1313

PLASTIC
0687

STRESS RELAXATION
1959 1961 1964 1974 2712 3206 3207 3350 3843 3844
4511 4638 5278 5724 5726 5731

•SEE ALSO•--- CREEP

STRESS, RESIDUAL--- •SEE• STRAIN AND STRESS, RESIDUAL

STRINGS
3929

STRUCTURES
0842 1068 1450 2125 2128 3027 3747 3764 4019 4219
4286 4287 4648 4671 5021 5261 5263 5313 6401 6497
6983

AIRPLANE
0209 0224 0246 0264 0265 0297 0941 1022 1307 1415
1420 1436 1756 1759 1763 2101 2127 2129 2699 2706
2707 3319 3981 3982 4023 4024 4025 4288 4305 4307
4673 4797 4831 4930 4946 5285 5546 5893 5895 5896
6447 6738 6938 7077 7222 7348

ANALYSIS
0021 0266 1238 1246 1349 1452 1457 1458 1461 1463
1465 1466 1467 1468 1469 1471 1472 2691 2692 2697
2705 3364 3367 3368 3369 3376 3377 3378 4006 4010
4012 4015 4020 4547 4651 4665 5161 5300 5302 5308
5869 5878 5879 5881 5882 5884 6243 6287 6478 6479
6481 6482 6483 6484 6485 6486 6487 6947 7069 7071
7072

BLAST RESISTANT
4654

BUILDINGS
0837 0838 1469 1470 2114 2121 2704 3252 3373 3378
3907 4014 4549 4668 5748 6484 6999 7069 7094

CUTOUTS
0206 0264 1485 2090 3816 4627 5299

LIMIT DESIGN
0098 0240 0242 0687 0691 0833 0834 1314 1449 1451
1460 1462 1972 2114 2117 2554 2557 3358 3848 4536
4650 4653 5294 5301 5738 6317 7035 7065 7222

LOADS
0246 0507 0985 2240 2752 2988 3132 4431

MINIMUM WEIGHT DESIGN
0106 0687 0832 1449 1450 4011 4526 6342 6480

MISSILE
0507 0932 1151 1486 4307 6342 7354

MODELS
0508 2006 7012

PRESTRESSED
0212 1459 2695 3359 3360 3977 4013 4029 4654 4667

STRUCTURES •CONTINUED•

SHIP
0262 0687 1851 1957 2115 3719 6813 6821

SMOKE STACKS
3311

SPACE VEHICLE
0271 1153 1487 1488 3357 5277 5291 6470 6495 7379

STATICALLY INDETERMINATE
0097 0102 0239 0240 0241 0249 0835 0836 0837 2119
2126 2557 2693 3358 4007 4547 4649 4656 4657 4658
4659 4660 5303 5304 5306 7064 7070

TESTING
3366 4000 6391 6499 6738

THERMAL STRESSES
0253 1022 1130 1461 1759 1763 4305 4307 4930 7348

WELDED
1015 2146 2147 2611 3873 5174 5259 7076

•SEE ALSO•--- ARCHES AND VAULTS -- BRIDGES -- BUCKLING, STRUCTURES -- CONCRETE AND MASONRY -- DAMS -- DYNAMICS, STRUCTURES -- FATIGUE, STRUCTURES -- FOUNDATIONS -- FRAMES AND BENTS -- HIGHWAY AND RUNWAY CONSTRUCTION -- IMPACT, STRUCTURES -- JOINTS, WELDED -- PILES -- PRESTRESSED CONCRETE -- RAILWAY CONSTRUCTION -- REINFORCED CONCRETE -- SANDWICH CONSTRUCTION -- TRUSSES -- TUNNELS -- VIBRATION, STRUCTURES -- WOOD STRUCTURES

STRUTS--- •SEE• BUCKLING, COLUMNS

SUBMARINES
3028 3714 5027 5861 6228

SUBMERGED BODIES
0277 3028 5943

•SEE ALSO•--- HYDRAULICS, DYNAMICS OF LIQUIDS

SUCTION--- •SEE• BOUNDARY LAYER, CONTROL

SUPERCHARGERS
3471 6013

SURFACE ROUGHNESS--- •SEE• FRICTION

SURFACE TENSION
3052 3577 4137 4709 6523

SURGE TANKS
0951 2258 2259 2261 2738 3466 6004 6596 6597 6598

SUSPENSIONS
0528 0538 2233 2457 3045 3048 7433 7434 7435

•SEE ALSO•--- CENTRIFUGATION -- FLOATATION

SWEAT COOLING--- •SEE• MASS TRANSFER, SWEAT COOLING

SYSTEMS ENGINEERING--- •SEE• AUTOMATIC CONTROL, PROCESSES AND SYSTEMS

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0620 1201 3083 3122 5965 6244 6250 6859

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TEMPERATURE MEASUREMENT
0371 0891 1003 1005 1007 1008 1009 1010 1011 1012
1013 1014 1071 1720 2214 2291 2305 2310 2320 2340
2342 2855 3509 3511 3512 3531 3535 4184 4185 4222
4223 4384 5444 5452 5453 5454 5477 5478 6071 6072
6073 6078 6639 7210 7250

•SEE ALSO•--- FLAME, TEMPERATURE MEASUREMENT -- THERMOCOUPLES

TEMPERATURE RECOVERY
1037 4078

TENSOR METHODS--- •SEE• MATRIX, VECTOR AND TENSOR METHODS

TEXTILES
2676 3341 4003

THERMAL BUCKLING--- •SEE• BUCKLING, THERMAL

THERMAL PROPERTIES
0367 1134 1713 2872 2904 2905 3577 4200 4863 4916
4967 6070 6074 6078 7235

CONDUCTIVITY
0364 0366 0368 0416 1069 1070 1713 2314 2319 2336
2341 2342 2862 2865 2866 2884 3516 3517 4190 4193
4820 4824 4862 4914 5448 5455 5492 5494 6049 6061
6062 6063 6064 6065 6074 6075 6076 6077 6465 6637
6644 6645 7235 7236 7261

EMISSIVITY
1713 2346 2887 4206 5479 6097 6099 6101 6102 7266

SPECIFIC HEAT
0368 1713 3501 5287 5834 6043 6060 6068 6069 6074
6637 7248 7292

THERMAL SHOCK--- •SEE• SHOCK, THERMAL

THERMOCOUPLES
0371 1005 2305 3511 4826 6072 6095 6639

THERMODYNAMICS
0347 0357 0998 1666 1669 2302 2303 4181 4224 4229
4828 5582 6091 7229 7234 7244 7245

CYCLES
0360 0998 1012 2304 2308 3577 4175 4176 4183 4225
4817 4818 4819 6040 6125 6130 6636 7231 7241 7310

IRREVERSIBLE
0369 2306 2841 3204 4854 5407 5450 6038 6039 6510
7230

MEASUREMENTS
0998 1008 1009 1012 1013 1014 1250 1551 1668 1670
2256 2842 2854 2855 3509 3565 3575 4826 4885 6042
6051 6075 6076 6077 6080 6149 6699 7233 7242 7313

PROPERTIES
0365 0998 1004 1008 1670 1671 1672 1673 2307 2308
2847 2848 2850 2892 3501 3577 4180 4181 4182 4309
4817 4821 4822 5448 5672 6037 6041 6042 6043 6050
6054 6056 6057 6058 6060 6061 6063 6064 6065 6066
6067 6068 6080 6637 6723 7237 7239 7241 7242 7243
7247

STATISTICAL
0358 1672 2781 2839 2849 2852 3503 3600 4173 4262
4824 5449 6045 6147 6727 7229 7232 7242

•SEE ALSO•--- ABSORPTION -- AEROTHERMOCHEMISTRY -- AEROTHERMODYNAMICS -- BOILERS -- CALORIMETER -- CHEMICAL THERMODYNAMICS COMBUSTION, THERMODYNAMICS -- COMPRESSORS -- DIFFUSION, THERMAL -- DIRECT ENERGY -- CONVERSION -- DISSOCIATION -- ENGINES -- EQUATIONS OF STATE -- FLAME -- FREEZING -- HEAT TRANSFER -- KINETIC THEORY -- MIXTURES -- PHASE CHANGES -- POWER PLANTS -- REFRIGERATION, AIRCONDITIONING -- THERMAL PROPERTIES -- TURBINES VORTEX TUBE

THERMOELASTICITY
1127 1128 1129

ANISOTROPIC AND NONHOMOGENEOUS MEDIA
0479 0488 1117 1118 1131 1760 1762 2395 2402 2404
3615 3617 5566 5567 6156 7351

BEAMS
1768 1769 3615 7348

GENERAL THEORY, THREE DIMENSIONAL
0687 1124 1126 1760 1762 1764 2396 2397 2558 3619
4291 4301 4309 4931 6160 7353 7359 7360

GENERAL THEORY, TRANSIENT
0482 0492 0493 4298 4928 4931 4932 4933 6155 6158
6161

GENERAL THEORY, TWO DIMENSIONAL
0481 0486 0491 1120 1121 1123 1125 1757 2398 2401
2404 4292 7367

PLATES
0479 0480 0490 0681 1120 1758 1761 2394 2978 2979
2980 3616 3618 3620 4293 4929 5556 5558 5559 5561
5565 6155 6157 7349 7350

SHAFTS
7358 7364

SHELLS
0484 0488 1119 2403 3613 3622 3889 4290 5554 5555
5557 5561 5564 6159 7347 7352 7356

STRUCTURES
0485 0487 0494 1122 1127 1130 1136 1759 1763 1765
2399 2977 2981 3614 4294 4295 4304 4305 4306 4930
4934 5559 5560 5562 5563 6153 6154 7345 7346 7351
7354 7355 7357 7360 7361 7362 7365 7367

THERMOELECTRICITY
0361 0362 0999 1070 2844 2845 3510 4186 4221 4825
4894 7249

•SEE ALSO••--- THERMOCOUPLES

TIDES
1204 1842 4102 6216

TIMBER CONNECTIONS--- •SEE• JOINTS

TIRES
1217 2482 3219 3890 5034

TITANIUM AND TITANIUM ALLOYS
0231 0820 0831 1411 1436 1442 3350 6469

TOOLS
0200 0788 1214 1405 4357 5228 5229 6398 6399

HARDNESS
1406 3304

LIFE
3303 4617 6436 6438

STRENGTH
0794 6438 6440 6441 7030

•SEE ALSO••--- VIBRATION, TOOLS

TORSION
2020 4002 4003 4864 5820 6445 7015

BEAMS
0081 0082 0083 0084 0114 0689 1326 1327 3191 3193
3256 3257 3851 3879 4522 5754 6925 6936

PLATES
3234 4552 6948 6951 6952

SHAFTS
0085 0088 0093 0218 0687 0689 0701 0702 1296 1306
1326 1371 1769 1983 2545 2569 3192 3194 3195 4492
4520 4674 5136 5138 5139 5715 5716 5752 5753 6312
6313 6940 6946

SHELLS
1345 3894 3906 3911 5767

STRUCTURES
1301 1327 1753 3817 3818

•SEE ALSO••--- MARINE ENGINEERING, SHIP MODEL EXPERIMENTS

TRAJECTORIES
1140 1141 1784 2407 2410 2411 2417 2432 2436 2812
2994 2999 3001 3012 3636 3801 4312 4313 4314 4315
4317 4326 4330 4331 4954 4955 4980 4988 5568 5569
5571 5573 5574 6271 6759 7379 7382 7385 7391

ATMOSPHERIC
0502 0503 3659 4126 4456 4936 4940 4987 6175 6176
6755 7183

ATMOSPHERIC BALLISTIC
0502 1806 3658 4989 6175 7396

INTERPLANETARY
0638 1787 2423 3000 3009 3168 3169 3644 3648 3652
4320 4952 6752 6753 7386 7392

LAUNCH
1149 2406 2409 2430 2433 3003 3006 4970 5572 5588
6174 6750

ORBIT INJECTION
1794 1796 2409 2416 2430 7382 7384 7385 7386 7396

ORBIT TRANSFER
0505 1787 2421 2422 2423 3002 3170 4324 4334 4951
4953 5575 5576 5578 7383 7390 7395

REENTRY
1142 1143 1618 1786 1792 1797 1798 2406 2412 2418
2760 2811 2987 2995 3007 3538 3632 3658 3659 4333
4935 4956 4957 4969 4970 5572 5577 5580 5582 5585
5589 5993 6169 6175 6182 6750 6751 6756 6766 6767
7186 7402

RENDEZVOUS
1789 1790 2425 2433 3638 4316 4325 4336 4951 4963
5570 6166 6167 7383 7384

•SEE ALSO••--- CELESTIAL MECHANICS -- ORBITS

TRANSDUCERS
3337 3491

TRANSFORMS--- •SEE• OPERATIONAL METHODS

TRANSPIRATION COOLING--- •SEE• MASS TRANSFER, SWEAT COOLING

TRANSPORT OF DUST--- •SEE• DUST, TRANSPORT

TRANSPORT PROPERTIES
1003 1197 2336 3577 4178 4216 4824 4828 4870 5449
5451 6050 6645 6692 7235 7238 7279

DIFFUSION
1675 2378 2854 3581 3599 3608 4233 4253 4865 4914
5455 5482 5483 5484 5498 6049 6711 7280 7327 7330
7332

MOMENTUM
2775 6645

VISCOSITY
0364 1073 2307 2309 2851 4820 4823 6046 6047 6048
6049 6079 6637 7235

TRANSPORT PROPERTIES •CONTINUED•

•SEE ALSO•--- EFFUSION -- KINETIC THEORY -- THERMAL PROPERTIES

TRUSSES
0245 0692 5303 5308 6482

TUNNELS
0191 0248 1399 1427 1836 1837 1838 3291 3375 3967 3968 5859 5934

TURBINES
0346 1636 2320 3336 3480 3564 3565 4676 4895 6009 6610 6613

BLADES
0489 0961 0962 1633 1635 2272 2273 2274 2279 2400 3044 3473 3474 3475 3476 3477 4146 4147 4153 4790 6453 6601 6966

FATIGUE
0953 6453

GAS
0430 0489 1085 1635 2273 2274 2279 2282 2359 2400 2918 2919 2920 2921 2922 2924 3415 3422 4225 4792 4819 6677 6686 7205 7358

HYDRAULIC
0345 0346 0963 1645 3484 4787 4788 4789 5346 7203

NOZZLES
0962 2282 2919 2925

ROTORS
3333 4056

STEAM
1085 3540 6008 6126

TUBES--- •SEE• PIPES AND TUBES

•SEE ALSO•--- HEAT TRANSFER, TURBINE BLADES -- VIBRATION, BLADES

TURBOJETS--- •SEE• JET ENGINES, TURBOJETS

TURBULENCE
0289 0861 0919 0944 1554 1588 1589 1651 2232 2249 2354 2472 2770 2974 3033 3451 3452 3454 3455 4104 4108 4346 4994 5363 5987 6000 6185 6190 6395 6522 6612 6616 6787 6985 7171 7462

ANISOTROPIC
1537 3450 4915 5418 5981 7322

DIFFUSION
3454 4109 4879 5520 5983

HOMOGENEOUS
1586 2801 2802

ISOTROPIC
1590 2805 3449 7169

MEASUREMENTS
1591 1596 1597 1598 2249 2803 4767 4879 5422 5983 5984 5986 6579 6617 7109

MIXING LENGTH THEORY
1587 2217 3438 5921

STATISTICAL THEORY
1586 2230 2234 2354 2801 2802 4109 4768 5981 5984 7170 7191

•SEE ALSO•--- BOUNDARY LAYER, TRANSITION -- FLAME, TURBULENT -- HEAT TRANSFER, TURBULENT -- METEOROLOGY, TURBULENCE -- MIXING -- WAKES

TURNING
0754 1406 6440 6442

TWISTING OF SHAFTS--- •SEE• TORSION, SHAFTS

U

ULTRA AND INFRASONICS
0270 0362 0788 0816 1300 1494 1819 1856 2451 2643 2832 3042 3043 3305 3306 3663 3666 4005 4159 4350 4351 4352 4353 4354 4998 5339 5608 5609 5619 7423 7424 7425

UNSTEADY FLOW
0285 0342 1175 2279 2786 2974 3408 3414 3478 3485 4092 4113 4333 4750 4751 4752 4774 4778 4962 5390 5424 5433

INCOMPRESSIBLE
0959 1539 2175 2738 2745 3403 3411 3413 3476 3480 3675 3714 4070 4148 4721 4799 5365 5366 5426 6015 6196 6533 6563 6612 6616 6717 7089 7103 7111

SUBSONIC
2184 2278 5942 6563

SUPERSONIC
0876 0878 2207 2366 2389 2755 2766 2771 2774 2973 3428 4074 4114 5375 5947 5964 6542 7125

TRANSONIC
0874 2184 6563

UPWASH AND DOWNWASH--- •SEE• WINGS, UPWASH AND DOWNWASH

V

VACUUM TECHNOLOGY
2897 3173 4827 5123 5322 5924 6680 7315

VALVES AND GATES
0347 1502 1503 1504 2719 2738 5343 6513

VAPORIZATION--- •SEE• MASS TRANSFER, EVAPORATION

VARIATIONAL METHODS
1235 1871 1872 3130 3760 3941 4959 5669 6249 6843 6854 6855 6996

AERODYNAMICS
0889 2251 2275 4117 4127 6580

ELASTICITY
1950 3135 3246 3900 4541 5791 6012 6332

FLUID DYNAMICS
2152 2275 4065

SOLID DYNAMICS
2554 3829 5141 6930

TRAJECTORIES
2251 2410 4330 4951 4954 5581

VAULTS--- •SEE• ARCHES AND VAULTS

VECTOR AND TENSOR METHODS
0609 0610 1873 2254 2553 3120 3177 3633 3776 3809 4453 5055 5056 5057 5710 5719 6238 6853

•SEE ALSO•--- MATRIX METHODS

VEHICLES
2254 2918 3001

VEHICLES •CONTINUED•

AUTOMOTIVE
1082 1484 2497 6237

LAND
0190 2499 4723 6505

MOTION AND CONTROL
3658 3659 3769 7132 7184 7186

SEA
6019 6224 6820

STABILITY
2499 2982 2983 2991 2992 2998 4806 7185 7190 7378

•SEE ALSO••--- AIRPLANE -- IMPACT, VEHICLES -- MARINE ENGINEERING -- SUBMARINES -- TIRES -- VIBRATION, VEHICLES

VELOCITY MEASUREMENT
0173 2455 4710 4799 4800 6022 6024 6611 6612 6613 6614 6615 6616 6617 7104

VIBRATION
0150 0151 0183 0184 0617 0747 1363 2011 2041 2042 2620 2622 2625 2631 2973 3269 3270 3272 3928 3947 3954 4327 4583 4592 4670 5064 5197 6777 7004

ABSORPTION
0770 1255 2502 4587 6403 7008

AIRPLANES
0209 0520 1377 1781 2128 2389 2390 2974 3952 4797 5375 5545 5546 5548 5549 5553

BALANCING
0167 3948 3949 3950 4593 5219 6400 7007

BEAMS, ELASTIC FOUNDATIONS
0158 0766 5208 5231 5232

BEAMS, FORCED FLEXURAL
0156 0754 0763 0766 0772 1375 2019 2623 2629 3271 3275 3929 3931 3933 3946 4571 4574 4575 5208 5210 6192 6380 6383 6389 6986 6989

BEAMS, FREE FLEXURAL
0151 0164 0754 0755 0758 0763 1375 2018 2022 2038 2042 2634 3258 3274 3929 3931 3932 3933 3944 4571 5209 5791 5792 5794 5802 5803 6379 6984 6985 7005

BEAMS, LONGITUDINAL
0151 0156 0172 1243 2021 2022 2029 3266 3929 3955 6378 6381

BEAMS, THIN WALLED
3932 5793

BEAMS, TORSIONAL
0157 0159 0164 2021 2030 2034 2634 2639 3930 3932 3938 4572 4575 4586 5230 5232 6379 6382

BLADES
1373 1374 2033 2034 4575 4576 5793

BRIDGES
2475 4582 4664 4666 6392

DAMPING, FLUID
1255 1379 1621 1908 2632 2634 3714 3937 4132 4584 4588 4784 5096 5206 5207 5808 6380 6386 6389 6402 6403 6982 6985 7004 7005 7008

DAMPING, SOLID
0758 0770 1369 1380 1747 2021 2036 2038 2039 2626 2645 3270 3271 3272 3274 3844 3937 3951 4585 4586 4587 4588 5207 5230 5803 5808 6255 6380 6402 6403 6474 6981

VIBRATION •CONTINUED•

DAMPING, SUPPORT
3274 3937 3951 4582 4588 5219 5231 5232 5803 5808 6402 FEBRUARY FEATURE ARTICLE

DAMPING, TUNED
1923 2037 2635 6402

ENGINES
5230

FLUID
0293 0339 1624 2262 2263 2265 2442 2493 2628 2735 3263 3713 4139 4144 4428 4784 4785 4786 6006 7198

FORCED
0150 0158 0168 0520 0774 1258 2017 2620 2623 2635 2636 2645 3264 3275 3286 3382 3930 3940 3950 3952 4568 5198 5199 5206 5231 5232 6256 6380 6420 6986 6995 6999

FOUNDATIONS
1378 2062 2064 2622 2649 3273 3286 3371 3945 3953 4584 4591 5202 5218 5794 6393

FREE
0150 0839 1365 1373 1374 2014 2017 2036 2039 2505 3264 3928 3938 4567 4584 4586 4587 5789 6255 6394 6403 6982 7000 7003

FREQUENCIES, BEAMS
0158 0748 0754 0755 0763 0766 2022 2029 2037 2505 2506 2629 3258 3931 3932 4571 4574 5209 5791 5792 5807 6379 6984 6985

FREQUENCIES, MEMBRANES
0162 0748 0761 1365 5201 6375 6376 6991 6993

FREQUENCIES, METHODS FOR CALCULATING
0160 0747 0748 0749 0761 0766 1256 1364 2012 2014 2016 3147 3258 3261 3262 3263 3265 3931 3932 3939 3943 4567 4571 4579 4581 5096 5201 5213 5214 5226 5231 5791 5792 5794 5795 5799 5800 5802 5807 6375 6377 6984 6991 6992 7003 7006

FREQUENCIES, SHELLS AND PLATES
0152 0160 0748 0759 0760 1366 1367 1369 1370 1746 1813 2022 2023 2024 2025 2026 2027 2028 2031 2032 2627 2628 3260 3261 3262 3263 3265 3934 3935 3936 3938 3939 3940 3941 3942 4576 4578 4580 4993 5203 5204 5205 5211 5212 5213 5214 5215 5216 5217 5222 5224 5225 5228 5233 5798 5799 5800 6384 6385 6386 6387 6991 6992 6993 6994 6997 6998

HELICOPTERS
0498 0763 2033 3630 3670 4575 5793

INFINITE DEGREE OF FREEDOM SYSTEM
0749 4577 5209 5792 5795

ISOLATION
2632 2633 3273 4566

MACHINES
0768 1379 2630 2631 3267 3949 3950 4573 4583 4592 5229 5806 6398 6399 7001 7007

MEASUREMENTS AND INSTRUMENTATION
0169 0173 0655 0753 0775 1377 1380 1431 1929 2021 2038 2041 2631 3152 3260 3270 3272 3274 3344 3686 3955 3956 4570 5049 6390 6391 6460 6499 6982 7009

MEMBRANE
0761 1365 3268 6375 6376 6991 6993

MISSILES
0488 2998 3147 3266 5375

MOVING LOADS
0166 0174 4595 4993 5208 5806 6996

VIBRATION •CONTINUED•

MULTIPLE DEGREE OF FREEDOM SYSTEM
0151 0155 0747 0751 0765 0768 0769 0773 0774 1364
2016 2040 2504 2509 2625 2645 3153 3259 3269 3271
3927 3928 3943 3947 3950 3961 4570 4579 4593 5200
5209 5213 6370 6371 6390 6869 6980 7006

NONLINEAR
0150 0153 0154 0753 0839 2013 2014 2500 2621 2622
2629 2631 2633 2635 2637 3259 3273 3927 3952 3962
4429 4569 4572 4577 5197 5199 5200 5233 5790 5809
6370 6371 6373 6381 6388 6393 6395 6846 6848 6980
6981

NONLINEAR, FREE
0030 0153 0747 0751 0753 1372 2014 4577 5197 6370
6371 6373

NONLINEAR, FORCED
0168 0637 0750 0751 1258 2631 2637 3152 3940 3962
5197 5233 5790

NONLINEAR, COMPLEX SYSTEMS
0153 0154 0172 2013 2018 5197 6370 6381

PLATES
0004 0139 0156 0160 0161 0741 0742 0752 0759 1293
1366 1367 1368 1369 1813 2022 2023 2024 2042 2441
2627 2628 3260 3261 3263 3264 3934 3942 4143 4595
4993 5203 5204 5205 5211 5212 5213 5214 5215 5216
5217 5220 5224 5225 5756 5798 5799 5805 6351 6384
6385 6386 6387 6420 6990 6991 6992

PLATES ON ELASTIC FOUNDATIONS
0162 0341 1367

PLATES, SANDWICH
0758 0760 1369 3265 5215 5798

PLATES, STIFFENED
0760 3262 3263 3934

PROPELLERS
1211 3725 3726 4590 4797 5026 5793 5805 6812 6817

RANDOM
0520 0772 2632 2636 3929 3953 3954 3961 4589 4599
5231 6372

ROTATING DISKS
0163 0757 1256 1902 2020 2033 2034 3267 3948 4573
4576 4593 5202 5218 5220 5796 6389 7007

SELF EXCITED
0032 1372 2035 3158 3398 3952 4569 4590 6374 6395
6871 6988 7006

SHAFTS
0159 0163 0756 0757 1379 2035 2626 3259 3267 3271
3948 4593 5210 5218 5231 5232 5796 5797 6383 6400
6987 6988 7005 7007

SHELLS
0156 0762 0764 1999 2025 2027 3936 3938 3939 3940
3941 4580 5221 5222 5800 6388 6993 6994 6995 6996
6997 6998

SHELLS, CYLINDRICAL
0759 0762 0764 0767 1372 1746 1984 2025 2028 2031
2032 2975 3242 3268 3930 3935 3936 3938 3939 3940
3941 3955 4578 5221 5228 5800 6388 6396 6993 6994
6995 6996 6997

SHELLS, SANDWICH
3941 6995 6997

SHELLS, SPHERICAL
0152 1370 2026 2027 4564 4580 5221 5222 6993 6998

SHELLS, STIFFENED
0767 1372 3936

VIBRATION •CONTINUED•

SHIP HULLS
1376 5026 5227 5804 6226 6227 6397 6811 6812 7001
7002

SINGLE DEGREE OF FREEDOM SYSTEM
0150 0168 0765 0769 0771 1378 1379 2017 2620 2623
2625 2630 2632 2637 3286 3928 4568 4584 5198 5199
5206 5207 5789 5809 6373 6399 6404 6981 6982

SOIL
3965 3966 4591 6393

SPRINGS
2633 4586 5807 6377

STABILITY
0038 0151 0153 0154 0339 0750 0751 1368 2012 2019
2037 2146 2389 2507 2621 2626 3158 3269 4573 5790
5798 6374 6380 6387 6388 6392 6870

STRINGS AND CABLES
0151 0773 2015 2624 2638 3929 4570 5200 6378 6983

STRUCTURES
0165 0520 0765 0767 1374 1377 2012 2016 2036 2040
2121 2629 3268 3392 3942 3943 3944 3945 3947 3951
4566 4567 4579 4581 4585 4599 4779 5219 5226 5746
5794 5795 5801 5802 5808 6372 6390 6391 6394 6401
6845 6983 6999 7000 7001

STRUCTURES, BRIDGES
0166 1373 1374 2475 4582 6392

STRUCTURES, BUILDINGS
0765 0767 0838 1374 1375 1464 3315 3370 3371 3372
3943 3945 3947 4579 4585 6599

STRUCTURES, ELASTIC FOUNDATIONS
0165 1378 3945 4585 6393

TOOLS
0754 4357 5228 5229 5250 6398 6399 6439 6440 6441
6442

TORSIONAL
0467 0498 0639 0641 0756 0757 0823 1371 1754 2020
2030 2034 2035 3948 4572 4573 4631 5217 5221 5230
5232 6382 6398 6988 7005 7015 7344

TURBOMACHINERY
0470 1431 2033 3336 3949 3953 3956 5202 6017 6402

VEHICLES
0468 1903 1904 4588 4589 6402 7003

•SEE ALSO•--- FLUTTER -- IMPACT -- SHOCK WAVES IN SOLIDS -- WAVE MOTION

VIRTUAL MASS
0277 3935 6015 6226 6811

VISCOELASTIC WAVES
0780 2550

VISCOELASTICITY
0609 2130 2486 3335 3940 3951 5052 5814 6391

DYNAMIC PROPERTIES
0086 0678 0685 0846 1163 1302 1303 1304 1305 1311
1954 1964 2154 2401 2550 2553 2558 2713 3200 3767
3829 3830 3831 4298 4498 4679 4684 4685 5147 5730
5731 6298 6299 6930 6931

EXPERIMENTS
0679 0685 1163 2713 3200 4644 5732 5908

FINITE DEFORMATIONS
1965 5141

MECHANISM
0679 0681 1306 1966 4498

VISCOELASTICITY *CONTINUED*

MOLECULAR THEORY
0685 4513 5160 5729 5908

VISCOPLASTICITY
0098 0687 1311 1497 1499 2554 2710 3335 3767 5909

VISCOSITY
2307 2875 3052 4681 4820 4846 6217 6611

MEASUREMENTS
1073 1648 2150 2834 2848 2851 3048 4681 5339 5439
6046 6048 6079 6509 6618 6619

METER
0976 2150 2286 2287 2713 2833 2835 4160 4802 6618

VORTEX
0388 0532 1060 1212 1527 1535 1587 1775 2172 2242
2335 2720 2843 2934 2974 3414 4052 4053 4056 4090
4119 4687 4707 5361 5931 5933 5972 6014 6023 6086
6514 6620 7089 7090 7091 7104 7105 7109

SHEETS
0333 1528 1535 2171 2174 2744 2745 4394 4796 5425
5443

STREETS
0863 0864 0867 1211 1595 1752 2743 4055 4143 4721
4779 6539

VORTEX TUBE
1060 1505 2842 2843 2935 6563

W

WAKES
0344 1754 2180 2181 2182 3410 3457 4948 5982

MEASUREMENTS
2186 2215 2335 2743 4106 4122 4167 6539 6578

THEORY
0867 0957 3399 4106 4716 6015 7106 7117 7146

WATER HAMMER
2257 2260 2826 4138 4148 4782 4783 5366

WATER TUNNELS
0978 1211 2477 4163 6014 6023 6622

WATERWAYS--- *SEE* CANALS

WAVES
0183 0184 0185 0186 0340 0979 1384 1385 1387 1392
1627 1818 1843 2255 2440 2643 2818 2824 3280 3461
3471 3958 4077 4134 4342 4433 4781 4995 5236 5601
5997 5998 5999 6002 6405 6411 6418 6421 6592 6594
7021 7193 SEPTEMBER FEATURE ARTICLE

ATMOSPHERIC
1732 1820 6183 6807

ATTENUATION
0179 0953 1388 1733 2639 2969 4910 5434 6000 7425

CAPILLARY
2821 7194

EFFECT ON STRUCTURES
0776 0952 1851 3283 3469 3962 4140 4358 5239 6590

ELASTIC
0170 0183 0184 0185 0186 0558 0559 0560 0568 0778
1191 1382 1383 1384 1385 1936 2043 2045 2448 2470
2471 2639 2640 3276 3696 3957 3958 4434 4597 5237
5239 5811 5812 5815 5816 5817 6410 6788 6789 6790
7010

ELASTIC, BARS AND BEAMS
0004 0171 0187 0779 1313 1386 1816 2042 2639 3283
4598 4992 5813 6408 7013 7014

ELASTIC, PLATES AND SHELLS
0175 0752 0764 0776 1368 1808 1813 2042 2044 3182
3276 4595 4597 4993 5205 5234 6413 6414

ELASTIC, SEMI-INFINITE MEDIUM
0073 0174 0185 0186 0778 0780 1191 1381 1387 1391
2042 2640 4597 5234 5235 5810 5817 6413

ELASTOPLASTIC
0176 0177 0183 0777 1313 1391 1392 2048 2052 2638
2641 2642 3278 3280 3285 4596 5152 5818 6412 7014
7015 7016

FINITE AMPLITUDE
0340 0946 0954 2641 3459 3462 3464 3589 4244 5523
5812 6143 6406 6410 6715 7197

GENERATIONS
0171 0341 0569 0945 1383 1387 1737 1843 2961 3084
3284 4245 4348 6413 7424

GRANULAR MEDIA
0179 2048 2049 2050 2264 2448 2463 3039 3279 3665
3959 4591 5238

GRAVITY
0341 0946 0948 1800 2820 3084 3459 4781 5434 6588
6793 6795 7197

INTERACTION
2043 2045 2047 2641 3279 3285 4348 5434 6588 7010

MEASUREMENT
0180 0187 0561 0779 1389 2045 2256 2644 2821 2822
2824 2825 3276 3959 3960 4133 4145 4803 4993 5435
6590 7013 7194 7425

NONHOMOGENEOUS AND NON-ISOTROPIC MEDIA
0172 0174 0178 0180 1385 1733 1815 2050 2440 2955
2956 3039 3278 3279 3285 4600 4997 5235 5237 5811
5815 5817 7011 7017 7019

OCEAN
0567 0569 1204 3131 3699 4382 5349

PLASTIC
0687 0777 1313 2554 4339 4600 5152 5734 5813 6411
6412 7014 7016 7017

POROUS MEDIA
1381 2048 2049 2050 2448 2463 3674 5238

PROPAGATION VELOCITY
0170 0187 0779 1382 1386 1388 1816 1844 2822 3674
4995 5339 6001 7011 7423

REFLECTION AND REFRACTION
0175 0512 0947 1623 1626 1629 2043 2045 2047 2256
2267 2748 3277 3957 4986 5238 5239 5603 5605 5816
5817 5818 7010 7018

SHALLOW WATER
0448 1193 3462 4134 4395 6515 6591 7196

SINGULAR WAVES
1626 1820 4693 7193

SPECTRA
0170 0566 3286 5198 6408

STRINGS AND CABLES
2052 2638 4594 7016

SURF AND BREAKERS
1626 4136 6214 6407 6521

Review Numbers:	1–608	609–1225	1226–1870	1871–2491	2492–3119	3120–3745	3746–4422	4423–5051	5052–5657	5658–6236	6237–6842	6843–7464
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

WAVES •CONTINUED•

SURFACE
0178 0568 0569 0947 1381 1382 1383 1384 2640 2643
2819 2820 2823 3084 3284 3463 4132 4133 4600 4992
6001 6406 6594 7011

SWELL
0569

VISCOELASTIC
0780 2642 3082 4594 5814 7018 7019

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